CURRICULUM VITAE
ANDREW LAKE

Started as an ambitious solo developer working on projects ranging from software engineering, cloud & system administration over to game development, creative visual design and all the way to music production. Since then became a founder of a successful startup creating two SaaS platforms, now leveraging 10 years of experience.

Loves working in new fields and enjoys pushing the limits of what is possible.

- Strong accountability & leadership
- Client service & relationship building
- Employee hiring, training & coaching
- End-to-end product ownership
- Strategic & tactical roadmap planning
- Agile/Kanban/Scrum methodology
- Customer Success

- Exceptional with Go, Python, Typescript
- Code testing, review, deployment & QA
- Serverless technologies AWS & Azure
- System administration Windows & *nix
- Database technologies SQL & noSQL
- ML tooling experience
- UX / UI design & prototyping

ONLINE

@zealsprince // @catlinman

linkedin.com/in/zealsprince

LANGUAGES

ENGLISH - NATIVE SPEAKER
GERMAN - NATIVE SPEAKER
FRENCH - WORKING PROFICIENCY (DELF A2)

WORK EXPERIENCE

2020–2023
April – May

Tenacity Cloud – *Co-Founder* ▲
Principle Software Architect & Engineer, Product & Project Manager
Ann Arbor, Michigan, USA (Remote)

Tenacity was founded with the goal of bringing transparency, visibility and governability to customers' cloud environments under AWS, Azure and GCP. Building a cloud security posture management (CSPM) software as a service (SaaS) product lead to a separate cloud financial management (CFM) SaaS offering. Tenacity aimed to cover every insight from asset metadata to real-time security/compliance scanning and finally cloud cost optimization with anomly detection utilizing machine learning technologies.

CTRL

With the vast adoption of cloud provider services in the industry we identified the need for detailed monitoring and deep forensics into cloud environments. CTRL was built to give companies the ability to govern their environments at scale, seeing metadata at a per resource level, become compliant with frameworks such as NIST-800-53 / 171, SOC2 & HIPAA, while also protecting and identifying public facing, unencrypted and untagged assets.

AI

In an effort to focus on fin-ops specific clients and customers helped pivot the company to a new product called AI with a focus on utilizing machine learning to detect cost variance and anomalies, alerting on findings and giving forensic insight into historic cost from the AWS cost and usage report (CUR), Azure cloud cost consumption data sources for both Azure Enterprise and Azure Cloud Solution Providers (CSP).

Key Position Responsibilities

- Handled day-to-day project management responsibilities for all products and development efforts, leading code review, testing and deployments. Additionally acting as the intermediary between the development team, customers, leadership and stakeholders.
- Created and designed front-end applications using Vue+Node.JS under CTRL and Vite+Typescript for Tenacity AI.
- Built the core back-end codebase using Go for all projects and made executive desicisions on implementation designs. Furthermore developed a cloud asset metadata scanning engine utilizing a custom designed abstract syntax tree (AST).
- Oversaw enterprise and government organizational accounts, managed relations and further defined product requirements based on customer feedback. Focused on product lead growth strategies and customer success to close deals with enterprise accounts such as NASDAQ, eVestment, Protera Technologies and La-Z-Boy.
- Helped raise and secure seed round funding of $3M.

2014–2022

Catlinman – *Lead Developer*
Germany (Remote)

As Catlinman I managed both open-source and commercial projects in the areas of web and software development, computer graphics and visual arts, media design, game design and music production. Additionally consulted on information and network security, and contributed in a variety of open source software and frameworks.

Key Services & Activities

- Creation of music videos, audio visualization suites and branding material in collaboration with the Canadian music label *Monstercat* for *Bossfight, Ephixa & Falcon Funk. Additionally independently for Meganeko and Sound Remedy.*
- Quality assurance testing for multiple video games (Cobalt by Mojang) as well as software projects with strong reference to documented and detail-oriented reports.

WORK EXPERIENCE

2019
February – September

Frontio NET – *Front-End Developer*
Zlín, Czech Republic

> Support for various LAMP stack projects intended for front-end development using WordPress as the most important entry point for content management. Furthermore, acted as a mentor to other programmers and was responsible for presenting and integrating concepts from various storefront solutions as well as more complex implementations of JavaScript libraries.

Key Position Responsibilities
- Created an internal JavaScript library which was incorporated into all development initiatives within the company, serving as a skeleton starting point for future projects, accelerating growth and time to value.
- Seamless and responsive design implementations that at the same time put a big focus on runtime optimization.

2018 – 2019
September – August

Michael Olsen & Partnere A/S – *Software Developer & System Administrator*
Ballerup, Denmark (Remote)

> Worked as a consulting developer on MOP's *Floorcheck* application infrastructure, created enterprise and consultant Web applications, and built future-proof application programming interfaces. Additional role of system administrator responsible for managing the primary server infrastructure and monitoring security policies within all networking systems.

Key Job Services & Activities
- Joint development on service interfaces and an API for *Santander Bank*.
- Complete restructuring of project management within the IT area of the company as well as the implementation of continuous integration and deployment systems.
- Remote and in-house server management of Windows Server and Linux based systems a focus on security management and audits.

2018 – 2019
March – January

PSG Development – *Full Stack Developer*
Butjadingen, Germany

> Created the back-end system for a subscription-based mobile and desktop application. Also responsible for the creation of front-end designs and layouts as well as general branding of the application.

2017
November

Michael Olsen & Partnere A/S – *IT-Consulting*
Ballerup, Denmark

> Verified changes made by the team to back-end systems and helped update security solutions. Many of the back-end code-bases were updated and made more accessible with documentation for future members of the team. Additional support as a remote system administrator on demand.

EDUCATION

2015 – 2017

Universität Koblenz Landau
B. Sc. Computervisualistik
Koblenz, Germany

2007 – 2015

Zinzendorfschule Tossens
Abitur (High School Diploma)
Tossens, Germany

VOLUNTEERING EXPERIENCE

2020-2022

TUS Tossens – *Trampoline Acrobatics Instructor*
Butjadingen, Germany

SIGNIFICANT OPEN-SOURCE & COMMUNITY CONTRIBUTIONS

Open Source

- *campdown*: a Python 3.X based library and downloader published to pip and the Arch User Repository allowing users to download openly available Bandcamp music, ID3 tag it and build further applications on top of.
- *netadata-ts3*: a Python plugin for netdata allowing access to Teamspeak 3 server's query port connections and directly reading out relevant server metadata via socket connections and passing it to netdata for ingestion and further monitoring.
- *cordova-vue-onsen-typescript*: full stack setup for Cordova developers to immediately begin building mobile web applications leveraging the power of Vue, OnsenUI and Typescript.
- *love2dconsole*: written in Lua, an in-game "quake style" console implementation for the LÖVE2D game development framework giving developers the ability to arbitrarily modify objects, execute arbitrary code while also providing UI/UX boilerplate code to build further feature into such as plugins that can directly bind to the game's code.
- *love2dfluid: written in Lua,* a soft-body GLSL fragment shader accelerated fast real-time fluid simulation framework for the LÖVE2D game development framework, allowing users to quickly and easily implement 2D fluid simulations in their game projects.
- *neko-config*: providing a core .dotfiles repository for over 40 different applications, server and CLI set-ups as well as UI themes.

Communities

- *Mavulp*: Created and lead an open-source development community focused on providing inclusive and forward thinking online spaces, building open-source applications and managing online infrastructure to bring people from around the world together.
  - hivecom.net: IRC, Teamspeak & gaming community spanning about 400 active and registered members managing game-servers, building online communication infrastructure since 2013.
  - hi!friends: An open-source *Google Photos/Flickr/500px* like image sharing and tagging site written in Rust, focused on in-community get-togethers, personal trips and adventures with a focus on building further community experiences.
- Nekodrop: created and managed a foundational VPS and serverless based web infrastructure for both professional, community and personal projects with a focus on observability, monitering, CI/CD ease of deployment and maintanability. Acted as the foundation for both Hivecom and Mavulp.

TECHNICAL KNOWLEDGE

Programming Languages & Libraries

- Oustanding experience with Python, Golang, C#, JavaScript, TypeScript, Java, Lua, PHP, Perl, Bash, Zsh, Powershell & VBScript.
- Advanced experience with C++, Rust, Dart, Ruby, Crystal, Elm & Haxe.
- Very good understanding of internet technologies and web frameworks such as Electron, Vue.js, Vite, React, Supabase, Sanic (Python), Flask, Node, Webpack and web libraries with among others being p5.js, Three.js, and jQuery.
- Advanced knowledge and experience with modern native graphics libraries and technologies OpenGL, DirectX as well frameworks such as SDL, SFML and Processing, GUI libraries and frameworks Qt, GTK & WinUI

System & Server Administration

- OSs: Windows, Windows Server, *nix (Arch, OSX, Debian, Ubuntu), Android & iOS
- Databases: SQL (Postgres), NoSQL (MongoDB), GraphQL, MS Access, ElasticSearch, AWS RDS & DynamoDB
- Web servers: Nginx, Apache, uWSGI, AWS API Gateway
- Virtualization & Serverless : Docker, Kubernetes, WSL, AWS ECS, EKS & Lambda
- Deployment & Monitoring: Concourse CI, Ansible, Netdata, GoAccess
- Extensive experience with VPS services from DigitalOcean, Heroku, AWS EC2, Azure VM

Software & Technologies

- Extensive experience with Adobe Creative Cloud products, including Photoshop, Illustrator, InDesign, Premiere Pro, and After Effects. Alternatively very familiar with Affinity Designer/Photo/Publisher and Krita.
- Comprehensive understanding of media-driven design and development pipelines: Blender (Cycles & EEVEE), Cinema4D, Marvelous Designer, Substance Painter/Designer, WorldEdit & SpeedTree.
- Good integration with mock-up web and mobile prototyping suites such as Figma, ProtoPie, Zeplin, Adobe Xd and API based applications like Insomnia and Postman.
- Mobile app development and UI suites Flutter and Apache Cordova.
- Real-time rendering in the field of video game development and media visualization using Unity, Blender and UnrealEngine.

PERSONAL INTERESTS

Leisure Activities

Traveling, Gardening, Cycling, Hiking, Swimming, Trampoline Acrobatics

Further Interests

Photography, Virtual Reality, 3D Printing, Music Production, Game Jams

RECOMMENDATIONS

### Irene Bratsis – *Product Lead* in
Tenacity Cloud (Previously Sales and Delivery Operations Analyst at Tesla)

I joined Tenacity to lead product and worked quite closely with Andrew. It was one of the top 5 working relationships I've ever had. A number of things go into why but I'll first start with the most straight forward: Andrew is one of the most competent and curious people I've met. Technically, I felt his skillset was truly full stack and even encompassed a lot of the particulars of data engineering as well. It felt really good to work with someone that had such wide range and the product ideas we discussed felt possible from a resourcing and coding perspective, which I felt really lucky to have on such a small team.

Secondly, I felt like I had a true product counterpart in Andrew. His intuition about product, his ability to weigh the pros and cons of certain product choices and his interest in making product decisions based on what the data was telling us made me feel that I could trust him early on. Finding someone with technical mastery AND strategic, analytical strengths is incredibly hard. Given the nature of a startup and the constraints we were facing, the decisions we were making were getting a lot of visibility and had significant downstream impacts for our customers and for our company culture internally. Andrew was consistently aware of the dynamics and potential risk factors of the choices we were making and it meant that we could have intellectually honest, safe and open conversations about where we wanted our product to go and what value we wanted it to have on our customer base.

Lastly, and this is by far the most important to me, Andrew's interpersonal skills. There's a lot to be gained by working with someone that has a lot of technical capability and business acumen. That's just the best of work. But with Andrew, you get that in the package of someone that's so easy to work with. He's intuitive and is able to pick up on the subtlest of energy shifts. Whether it was reading the room, helping reconciled potential miscommunications that come up with team members or leadership or recognizing the work and impact of the people on his team (and beyond), I was regularly impressed by his ability to work with so many various personality types. I got the sense early on that Andrew was a light hearted, fun loving, smart and driven individual and I'm proud to say that's still the case.

Any company would be lucky to have someone like Andrew on their team and I'm grateful that I was able to work with someone of his caliber. I only hope our professional paths will cross again in the future.
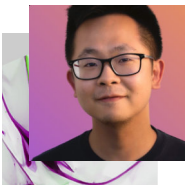
Licheng Zhu – *User Experience (UX) Researcher* in
Tenacity Cloud (Previously User Researcher at Microsoft)

Andrew is one of those rare engineering partners you wish to have. I highly recommend Andrew for any organization as someone who practices User Experience and Product Strategy.

At Tenacity, Andrew and I developed a strong relationship by aligning our engineering and UX visions and day-to-day workflows, which allows us to build the best product for our customers in a fast and iterative manner. In addition to his technical and organizational skills, Andrew is also a great team member to work with. Every day is filled with joy and fun, and I sincerely hope our conversations never end.

Andrew would be an exceptional addition to your team. I'm always ready to tell you more about how amazing Andrew is, so feel free to reach out if you have any more questions.

Jason Yaeger – *Chief Executive Officer* in
Tenacity Cloud (Previously Chief Revenue Officer and Chief Security Officer at Otava)

I'd start a software company with Andrew again in a heartbeat! As Tenacity's Chief Software Engineer, Andrew has proven to be a cornerstone, shaping our engineering team's culture since day one. He promoted a work environment that cultivated hard work, open discussion, respectful dissent, and fruitful collaboration.

Andrew's breadth of knowledge is well beyond his years and his technical acumen in delivering full-stack software solutions is as impressive as his leadership style. His forward-thinking approach, meticulous attention to detail, and quality-oriented mindset have consistently led us to success. Andrew's dedication and strategic vision make him an asset for any team, and I would HIGHLY recommend him.

RECOMMENDATIONS

Nick Lumsden – *Chief Technology Officer* [in]
Tenacity Cloud (Previously Chief Operating Officer at Otava)

Andrew is wise well beyond his years. He is a gifted leader with exceptional soft skills. People gravitate to his kind and positive attitude and his natural ability to bring people and ideas together, igniting collaboration and uncovering better solutions through inclusion and encouragement. This is extraordinarily rare in such a talented full-stack engineer. Andrew is vastly more intelligent than he will admit. He's a hard worker, who lifts everyone up, and by way of example inspires everyone around him to do the same. I would absolutely welcome the day to be founders in another venture together. He's an exemplary Chief Engineer, software architect, tech entrepreneur, and Founder. I expect I will see Andrew among the product or engineering leadership ranks of some very fortunate company in the future. My strongest recommendation.

Kim Elam – *Head of Customer Success and Operations* [in]
Tenacity Cloud (Previously Relationship Manager at A Cloud Guru)

I highly recommend Andrew for any organization seeking a dynamic and results-oriented individual who excels in the realm of software architecture, engineering, and customer strategy. I had the pleasure of working closely with Andrew and witnessed firsthand his exceptional skills and dedication.

As a principal software architect and engineering lead, Andrew demonstrated an unparalleled level of expertise in developing front and back-end services. His proficiency in both AWS and Azure cloud platforms was truly remarkable, and he consistently leveraged this knowledge to create robust and scalable solutions. Andrew's ability to navigate complex cloud environments and optimize them for maximum performance was truly impressive.

One of Andrew's most valuable qualities is his unwavering focus on the customer. He possessed a deep understanding of customer needs and tirelessly worked to design and build solutions that optimized the customer experience. Andrew's talent in sourcing and incorporating customer feedback into product development processes enabled our team to stay ahead of the curve and deliver outstanding customer outcomes.

Collaboration and effective communication are essential in any team environment, and Andrew excelled in both areas. He fostered a collaborative atmosphere within the organization, encouraging team members to share ideas and insights. Andrew's ability to synthesize information from various stakeholders and communicate it clearly to the team was unparalleled. Working with Andrew was an absolute pleasure, as his approachable nature and strong interpersonal skills made him an exceptional teammate and leader.

In summary, Andrew's expertise in software architecture, mastery of AWS and Azure cloud platforms, customer-centric approach, and exceptional collaboration and communication skills make him a truly outstanding professional. I wholeheartedly recommend him for any position that requires a top-tier customer success manager, software architect, engineering lead. Andrew's unwavering commitment to excellence and his ability to drive results will undoubtedly make him a valuable and multifaceted asset to any organization fortunate enough to have him on board.
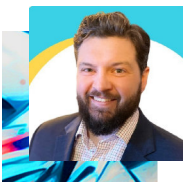
Steve LaChance – *Chief Marketing Officer* [in]
Tenacity Cloud (Previously Market Intelligence; Strategic Marketing at Owens Corning)

I recommend Andrew without hesitation or equivocation. He is exemplary in his capacities as an engineer, leader, and colleague. Without him we could not have built or launched our product. With him we were able to develop a tool with durable competitive advantage. His intellectual strength is eclipsed only by his intellectual curiosity and proficiency with leveraging interpersonal skills into valuable business outcomes.

Andrew leads teams that bring projects to fruition for innovative companies requiring the highest quality. And while many people possess a working combination of soft and hard skills, Andrew's is unique in scope and depth. In him you will find a cross generational leader.

I would routinely rely on his analysis of our company's commercial and technical realities to help shape our path to market.

If you have the chance to work with Andrew in any capacity, take it.

RECOMMENDATIONS

Ian Naughton – *Senior Software Engineer* in

CivicSoft, consulting Tenacity Cloud

I had the good fortune of working with the team Andrew was managing over at Tenacity Cloud/ Tenacity.ai for around two years. During that time I've had the chance to see Andrew work across multiple domains as both a leader and individual contributor (often at the same time).

As an individual contributor Andrew would often ship complete features entirely on his own, from cognito integration with AWS, to home grown rules languages for data parsing. He is an equally adept engineer across front end, back end, and sysadmin tasks. After inheriting code bases to maintain from Andrew it was extremely clear that he takes great pride in the quality and completeness of his work. As a leader of the team, he expressed himself as a clear technical authority demonstrating his problem solving capacity and deep knowledge of the tools and subject matter.

As a direct report, it was great working with Andrew since he would actively seek feedback from his team. As a leader it can be challenging to decide what information should be disseminated to the team, and how. Andrew did an excellent job, sharing relevant high level plans and developments from the executive team in a way that the individual team members could really engage with. Individual contributors had the opportunity to push back and help steer around obstacles that are only clear at their resolution.

I understand that the briefness of his tenure in management might be met with skepticism. As one of his direct reports, I can honestly say that this wisdom and maturity as a leader greatly exceed what you might expect based purely on his years in the industry.

All this aside, Andrew and the team he assembled over at Tenacity were both welcoming an accommodating as anyone could hope for. He and the rest of his team earnestly helped other team members as roadblocks came up, and looked for opportunities to celebrate when we succeeded.

I look forward to any opportunity to work with Andrew in the future--and I feel like this sentiment speaks for itself

Christian Olsen – *Lead Software Developer* in

Michael Olsen & Partnere A/S (Currently Senior Software Engineer at Maersk)

Andrew has played a key role in our company's first big foray into software production, consulting on development, refactoring, and especially configuring and maintaining new production systems. We contracted him as we faced a steep demand for getting our solution ready for launch soon, and with his help we were able to meet the demand.

He's extremely passionate about new tech stacks and can learn just about anything you throw at him – for example, setting up a complete CI flow and monitoring solution from scratch. Given his experience with so many different stacks, he was able to quickly get accustomed with our codebase and assist in development as well as suggest and implement other fitting tools and libraries.

Andrew will be an especially valuable asset to any team seeking flexibility and innovation. There is so much variety to work with in his skillset that I look forward to seeing what kinds of achievements lie in his future.

Jan Dolanský – *Lead Web Developer* in

Tenacity Cloud & Frontio NET

Chances are, if you hire Andrew, you have hired a full development team on its own. I had a chance to work together with him on a few projects and can say with full confidence that he is the most versatile developer I have met. He delivers projects on time and with the highest quality.

His skills include but are not limited to: animation, graphic design & coding, programming and system administration. His workflow is very well organized and all his projects are delivered with professionally written documentation.