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## BACKGROUND

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Strategic planning and execution informed by deep technical expertise:

- 10+ years of experience as a lead engineer, with products serving millions of users.
- 6+ years with applied ML/AI (CV, sensor fusion, anomaly detection, NLU, classifiers).
- Extensive knowledge of cloud infrastructure and application optimization.

Strong written and verbal communication skills:

- Published board and marketing collateral, focusing on technical accuracy and clarity.
- Worked directly with principal accounts to factor their needs into the product roadmap.
- Ran quarterly all-hands to coordinate strategy across engineering, product, and sales.

Proven track record of executive leadership in rapidly changing environments:

- Led engineering organization through a substantial restructuring and product pivot.
- Reduced per-seat opex by 60+%, improving runway and incremental SaaS margins.
- Achieved a successful exit via competitive acquisition process.

## MAJOR PROJECTS

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- Chief software architect on an industry-first AI-powered [PTT](#) communication platform.
- Early-stage principal engineer at a [sales-automation](#) startup, now valued at 4.4B\$.
- Lead engineer on [Amazon for Windows](#) desktop-integrated retail application (Windows 8).
- Designed identity and access management systems for the [Amazon Go](#) grocery store.
- Founded a startup to create a Git-integrated project management SaaS suite.
- Created an early smartphone CMS and ad delivery platform, which served 6M users.

## AREAS OF EXPERTISE

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Full-stack engineering background with extensive production experience in:

- Infrastructure: Terraform, Docker, and Kubernetes; on AWS, GCP, and Azure.
- Cloud services: EC2, S3, SQS/SNS, ECS/EKS, ElastiCache, RDS, Dynamo, CF.
- Databases: Postgres, DynamoDB, and Redis.
- Languages: Python, Javascript, GoLang, Ruby, Java, and Clojure.
- Client frameworks: React, Angular.
- Backend frameworks: Spring, Rails.

## RESEARCH AND PATENTS

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Lead author on 17 patents granted by the [USPTO](#), relating to research in:

- Sensor fusion.
- Object detection and classification.
- Physical user interaction.
- Hybrid-native mobile applications.

## WORK EXPERIENCE

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### **Director of Engineering** [AuditBoard](#), Los Angeles [ 2024 – Current ]

- Currently oversee four engineering teams (authorization, database, contracts, efficiency).
- Established org-wide KPIs for systemic performance improvements, and API overhaul.
- Measured key drivers of operating expense from dev experience (DX) to infrastructure.
- Responsible for improving DX across all of engineering through better tools and processes.

### **Chief Technology Officer** [Orion Labs](#), San Francisco [ 2019 – 2023 ]

- Held roles as both CTO and Chief Software Architect, reporting to the CEO and board.
- Oversaw four engineering teams (clients, services, infra, QE), as well as corporate IT.
- Implemented best-practices for security, code maintainability, and deployment.
- Moved core infra to Kubernetes, enabling cloud-portability and on-prem deployment.
- Migrated data layer from ElastiCache to RDS, improving bulk query times by 90+%.
- Regularly collaborated with strategic accounts to ensure their needs were being met.
- Worked with the CEO, sales, and CS to establish short and long-term technical strategy.
- Ran quarterly all-hands, maintaining consistent priorities and focus across the company.
- Pivoted the company away from consumer/SMB hardware, towards enterprise SaaS.
- Pursued top-line growth by scaling the platform to allow orders-of-magnitude more users.
- Restructured the organization to improve operational efficiency, and reduced opex 60+%.
- Built out technical aspects of aquisition deck, pitched alongside the CEO through to DD.

### **Principal Software Engineer** [Outreach](#), Seattle [ 2015 – 2017 ]

- Responsible for overhauling MVP system architecture to improve scalability and security.
- Refactored monolith backend into identity and backward-compatible API micro-services.
- Incorporated OAuth and upstream AD integration to enable SSO and 3P API access.
- Technical advisor on SOC2 certification process, overseen by the Chief Infosec Officer.
- Profiled the [Everywhere](#) plugin, improved rendering by 20% with only minor changes.

### **Software Development Engineer** [Amazon](#), Seattle [ 2012 – 2015 ]

- Lead engineer on the [Amazon for Windows](#) retail application, launched with Windows 8.
- Designed an SPA framework specifically to manage and coordinate sandboxed web assets.
- Extended Amazon's Cordova-like mobile event bus to support a richer navigation model.
- Created a fully responsive UI, which adhered to the Metro design language spec exactly.
- Ensured that Amazon for Windows was Amazon's first fully-HTTPS retail experience.
- Designed customer identity management and entry/exit workflow for [Amazon Go](#).
- Iterated early prototypes of all screen experiences in Amazon Go for executive leadership.
- Implemented real-time cart inventory tracking experience for the Amazon Go mobile app.
- Technical advisor on [Amazon Books](#) inventory management and checkout systems.

Further work experience and references available upon request.

## EDUCATION

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B.A.Sc. Software Engineering, with Honors  
University of Ottawa