# Alex McNamara

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93933

## BACKGROUND

Demonstrated executive leadership, with a broad set of professional accomplishments:

- Led engineering organization through substantial restructuring.
- 60+% reduction in cloud opex, improving runway and incremental SaaS margins.
- Achieved a successful exit via competitive aquisition process.

Strong written and verbal communication skills:

- Edited various board and marketing collateral for technical accuracy and clarity.
- Ran regular all-hands to coordinate strategy across engineering, product, and sales.
- Continuously communicated with strategic customers to address their needs directly.

Strategic planning informed by deep techical expertise:

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

## MAJOR PROJECTS

- 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

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, R53, Lambda, VPC, and IAM.
- Databases: Postgres, DynamoDB, and Reddis.
- Languages: Python, Javascript, GoLang, Ruby, Java, and Clojure.
- Client frameworks: React, Angular.
- Backend frameworks: Spring, Rails.

## RESEARCH AND PATENTS

Lead author on 17 patents granted by the USPTO, relating to research in:

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

## WORK EXPERIENCE

### Chief Technology Officer                                             2019 − 2023
*Orion Labs, San Francisco*
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### Principal Software Engineer                                          2015 − 2017
*Outreach, Seattle*
- 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 minor changes.

### Software Development Engineer                                        2012 − 2015
*Amazon, Seattle*
- 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.

### Founder, Software Engineer                                           2010 − 2012
*Dreamux, Montreal*
- Built a project management SaaS suite, for small to mid-sized software development firms.
- Wrote and open-sourced Slurm, an experimental SQL ORM built in Clojure.

## EDUCATION

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