

# Robert Lynch

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## Professional experience

### Staff Software Engineer @ Alaska Air Group

2022 - Current

- Led software team managing iPad kiosks deployed to over 100 airports with custom / proprietary hardware integrations facing numerous federal and local regulations and requirements
  - Developed and finalized frontend (Swift) and backend (Go) software and device deployment processes within 6 months, addressing rollout logistics and collaborating with construction, real estate, and field services teams
  - Hired engineers and acted as technical lead for software team who continue to maintain and iterate on the product while providing architectural and engineering capacity
  - Spent up to 5% of each month collecting in-person guest and agent feedback, aggregating and creating actionable issues to improve the product experience
  - Established org best practices for application alerting and telemetry, ensuring issue identification and escalation fall within 5 minute SLA
- Built and deployed custom hardware / software solutions in collaboration with internal and external marketing teams for SXSW and Coachella
- Identified issues with and improved gaps in collaboration, creating a new wiki / documentation platform

### Staff Software Engineer @ Beek

2022

- Created web and mobile team's technical roadmaps and oversaw the engineering teams as technical lead
  - Managed migration from a React Native applications to native Kotlin / Swift apps and a new web media player
- Mentored junior engineers and established best engineering practices for web and mobile interfaces
  - Oversaw the implementation of component-driven development and UI testing

### Senior Software Engineer @ Facebook

2016 - 2021

- Architected and developed an incremental build / code-generation framework for the website monorepo
  - 92% reduction in build-related deployment failures and 400% reduction in build times in the first 6 months
  - Partnered with teams across the company, such as the internal GraphQL, Thrift, and Relay infrastructure teams, to migrate their code-generation to the new incremental platform
- Designed and implemented a framework for linting the Hack code in Facebook's website codebase
  - Executes hundreds of lint rules contributed by developers across the entire company efficiently, identifying 10s of thousands of quality issues daily
- Designed, implemented, and enforced a consistent API for writing command line scripts in Hack, allowing for better logging, type safety, and ease-of-use, with 100% adoption in less than 2 years
- Maintained and modernized the Hack codebase's testing frameworks, powering over 2m unit tests
  - Added new testing functionality, including a system to amortize test costs effectively to reduce individual test runtimes by up to 95%

### Co-founder and CTO @ Cerebri AI

2015

## Education

### University of Texas at Austin

Graduated 2016

- Bachelor of Science in Computer Science

## Skills

Go	Swift, SwiftUI / Kotlin, Compose	GraphQL	SQL	Java	C, C++
Rust	React, JavaScript, TypeScript	PHP, Hack	Azure, AWS, GCP	Obj-C	Nix
C#, .NET	Svelte, Vue, Angular	Docker	MQTT	Python	Bash, Shell