Robert Lynch

robert@bobkat.io • https://robertlyn.ch/ • (650) 862-7367 • Austin, TX

professional experience

Senior Software Engineer @ Facebook   August 2016 - Current

- Architected a new framework for the website codebase's code-generation, building new files incremental off of developer's changes as opposed to all files in the repository.
  - Resulted in a 92% reduction in build-related deployment failures and a 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.
  - Provided ongoing support to remove generated code from the repository entirely by working with programming language and infrastructure teams to find and implement alternatives.
- Designed and implemented a framework for linting the Hack code in Facebook's website codebase.
  - Continues to identify over 50k+ quality issues to developers in their editors and on pull requests daily.
  - Executes hundreds of lint rules contributed by developers across the entire company efficiently.
- Designed, implemented, and enforced a consistent API for writing command line scripts in Hack, allowing for better logging, type safety, and ease-of-use.
  - Achieved 25% adoption in first 3 months with a nearly 100% adoption in 2 years requiring a minimal active migration effort.
- Maintained and modernized the Hack codebase's testing frameworks.
  - Added new testing functionality, including a system to amortize test costs effectively to reduce individual test runtimes by up to 95%.
  - Improved the developer experience with more helpful failure messages.
- Wrote or modernized several internal web-based tools, utilizing the most modern React, Relay, and GraphQL technologies.

Principle Software Engineer @ Beek   October 2015 - June 2016

- Acted as an engineer-at-large, working on site efficiency, performance, and stabilization.
- Migrated the UI from Rails templates to React backed by GraphQL and Relay to greatly reduce page-load times.
  - Reduced time-to-interactive from >30s in some instances to <1s.
- Migrated the site's hosting from a bespoke cloud provider to AWS Elastic Beanstalk with minimal downtime.

Co-founder and CTO @ Cerebri AI   January 2015 - August 2015

- Implemented the initial version of the product, which provided an API to interface with IBM's Watson platform and other machine learning models to find and rank answers for customer service inquiries.
- Interfaced with various investors and partner companies at conferences to find the business's market fit and enable growth.

education

University of Texas at Austin   Graduated May 2016

- Bachelor of Science in Computer Science

skills

Expert		Proficient		
PHP, Hack		Svelte, Vue, Angular	SQL	Java, Kotlin
React, JavaScript, TypeScript		Rust	Swift, Obj-C	Docker
Git, Mercurial		C, C++	Python	Bash, Zsh