Eric S. Crosson
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Interests

- Helping high-performing engineers perform better
- Making complexity approachable
- Reproducible builds and deployments, observability and experimentation in production
- Type theory, static analysis, functional programming, compilers, formal verification, technical writing

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Recent Work Experience

BitGo – Engineering Manager, Velocity (2021 - Today)

- Led a team of 6 with the mission to maximize engineering velocity and minimize friction in feedback loops
- Responsible for migrating engineering from a monorepo to team-owned repositories, creating build systems that reduced CI runtime 92%, and reducing MTTR 87%
- Partnered with cross-funcional product managers, engineering teams, and technical writers to create an internal process for building APIs in TypeScript
- Developed api-ts for type- and runtime- safe APIs, reducing data-related production issues 97% over 1 year

BitGo – Senior Software Engineer, Prime (2020 - 2021)

- Created risk-management engine for margin trading in Go, increasing trade volume 100x
- Integrated trade engine with 4 add'l liquidity providers, increasing limit order-book depth 68% over 100 bps
- Introduced functional programming in TypeScript, now used on 6 teams in 37 services

Stratos Trade LLC – Chief Technology Officer, Founder (2018 - Today)

- Created platform for quantitative research and automated execution of discretionary trading strategies
- Event-driven microservices on AWS using immutable infrastructure-as-code
- Functional programming in TypeScript/Rust backend, Python data science, Wasm in browser

ShoreTel – Embedded Software Engineer (2016 - 2018)

- Created on-premise GitLab & CI cluster with ansible & docker, reducing CI execution time 96%
- Architected next-gen embedded C++ phone firmware, eliminating race conditions during boot
- Created custom Linux distribution for in-house hardware with Yocto, eliminating 1-day exploits

IBM – Cloud Infrastructure Engineer (2015 - 2016)

- Developed public API for customers to provision and manage OpenStack cloud resources
- Scaled with 60% customer growth and 400% increase in managed servers, using Python and OpenStack

Intel – Pre and Post Silicon Validation Engineer (2014 - 2015)

- Created signal analysis tool for 3rd party DHCP RTL in Lisp, accelerating integration timeline by 15%

Centaur Technology – Design & Performance Verification Engineer (2013 - 2014)

- Invariant-based verification of multi-core PSE-36/PAE caching over 3 major architecture releases in Ruby

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Qualifications

- Expertise with TypeScript, Node.js, UNIX, Docker, Bash, GNU Make, git, LaTeX
- Familiar with Rust, Nix, Kubernetes, AWS, NoSQL, Go, Python, Ruby
- Looking forward to deeper mastery of WebAssembly, TLA+

Educational History

- **University of Texas** Bachelor of Science in ECE (Computer Architecture and Embedded Systems), May 2016