

Eric S. Crosson
11010 Domain Dr Apt 11310 Austin, TX 78758
(360) 820 - 8196 · esc@ericcrosson.com · github.com/ericcrosson

Objective Leverage technical skills to increase revenue and collaborate with a knowledgeable team

Relevant Skills

- Product ownership over entire lifecycle, from design to deployment and iteration in production
 - Emphasis on verifiability through pure functions, type theory, property/system testing, and ruthless automation
 - Hard- & soft- real-time event-driven distributed and concurrent systems
 - Entrepreneurial experience leading a diverse team of contractors and junior programmers
 - Strong sense of ownership and determination to see project completion
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Qualifications

- 17 years experience programming, 11 professionally including 2 start-ups, 1 profitable
 - Expertise with TypeScript on Node.js, Docker, C/C++, Python, Ansible, Lisp, Ruby, Unix, Bash, git, \LaTeX
 - Familiar with AWS, Terraform, NoSQL, Haskell, Clojure, React, MVC, Java, go, CMake, ACL2, Promela
 - Looking forward to deeper mastery of Scala, Rust, Nix, GraphQL, algebra, and statistics
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Recent Work Experience

- **Strong Roots Capital – Chief Technology Officer** (2018 - Today)
 - Architected, implemented platform for research and autonomous execution of quantitative trading strategies
 - Purely functional, 100% TypeScript microservice architecture on AWS from ETL to order execution
 - Entirely immutable cloud with infrastructure-as-code and serverless functions
 - **ShoreTel – Software Engineer** (2015 - 2018)
 - Architected next-gen embedded real-time phone firmware
 - Created custom Linux distribution for in-house hardware with yocto
 - Maintained on-premise GitLab service and CI cluster with infrastructure-as-code
 - Developed custom tooling to automate engineer workflows
 - Refactored legacy codebase to decrease coupling and increase testability
 - **IBM – Cloud Infrastructure Engineer** (2015)
 - DevOps management of public OpenStack cloud offering
 - Collaboration with patent teams
 - **Intel – Pre and Post Silicon Validation** (2014 - 2015)
 - Created analysis engine for 3rd party DHCP RTL signals
 - **Centaur Technology – Design Verification** (2013 - 2014)
 - Invariant-based verification of multi-core PSE-36/PAE access and caching
 - Formal verification with ACL2
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Educational History

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