Eric S. Crosson
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Relevant Skills

· Product ownership over entire lifecycle, from design to deployment and iteration in production

· Building verifiable, scalable systems with pure functional programming, type theory, property/system testing

· Minimizing mean time to repair with immutable infrastructure and aggressive automation

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Qualifications

· 17 years experience programming, 11 professionally

· Expertise with TypeScript, Node.js, C/C++, Python, Docker, Ansible, Lisp, Ruby, Unix, Bash, git, LaTeX

· Familiar with AWS, Terraform, NoSQL, Haskell, Clojure, React, Java, golang, CMake, ACL2

· Looking forward to deeper mastery of Scala, Rust, Nix, GraphQL

Recent Work Experience

· **Strong Roots Capital – Chief Technology Officer, Founder** (2018 - Today)

  ◦ Created platform for quantitative research and execution of systematic trading strategies
  ◦ Automated regime-dependent strategies for providing liquidity, trend-following, and mean-reversion
  ◦ TypeScript/Node.js microservice architecture on AWS using immutable infrastructure-as-code

· **ShoreTel – Software Engineer** (2015 - 2018)

  ◦ Architected next-gen embedded real-time C++ phone firmware, reducing race conditions by 100%
  ◦ Created custom Linux distribution for in-house hardware with yocto, eliminating 1-day exploits
  ◦ Created on-premise GitLab & CI cluster with ansible & docker, reducing CI execution time by 96%

· **IBM – Cloud Infrastructure Engineer** (2015)

  ◦ Managed public-facing API for customers to provision and reduce OpenStack cloud resources
  ◦ Scaled with 60% growth of customer-base and 400% increase in managed servers
  ◦ OpenStack Python SDK and Flask

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

  ◦ Created signal analysis tool for 3rd party DHCP RTL
  ◦ Accelerated integration timeline by 15%
  ◦ Initially in Lisp, ported to Python

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

  ◦ Invariant- and stochastic- based verification of multi-core PSE-36/PAE access and caching
  ◦ Confirmed lack of hardware design errors through 3 major architecture releases
  ◦ Test harness written in Ruby

Educational History

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