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

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Relevant Skills

- Iterative deployments of well-defined functional software
- Emphasis on verifiability through pure functions, type theory, and property testing
- Real-time event-driven distributed programming
- 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 3 start-ups
- Expertise with TypeScript, Node.js, C/C++, Python, Docker, Ansible, Lisp, Ruby, Unix, Bash, git, LaTeX
- Familiar with AWS, Terraform, NoSQL, Haskell, Clojure, Java, golang, CMake, Octave, ACL2, Promela, asm
- Looking forward to learning more Scala, Rust, Nix, GraphQL, algebra, and statistics

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Recent Work Experience

- **Strong Roots Capital – Chief Technology Officer** (2018 - Today)
  - Quantitative cryptocurrency portfolio management
  - Fully-autonomous systematic trading platform
  - 100% TypeScript microservice architecture on AWS from ETL to order execution
  - Entirely immutable cloud with infrastructure-as-code and serverless functions
  - Modeling risk and opportunity with data science and machine learning
- **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 with infrastructure-as-code
  - Developed custom tooling to automate engineer workflows
  - Refactored legacy codebase to increase decoupling and 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

Educational History

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