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

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, C/C++, Python, Docker, Ansible, Lisp, Ruby, Unix, Bash, git, L^AT_EX
 - Familiar with AWS, Terraform, NoSQL, Haskell, Clojure, Java, go, CMake, Octave, ACL2, Promela, asm
 - Looking forward to learning more Scala, Rust, Nix, 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
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Educational History

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