

Stephen Shelton

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 214.535.5783

 Remote / Denver

Languages

Rust	██████████
C++	██████████
TypeScript/JS	██████████
Python	██████████
Solidity	██████████

Technologies

Blockchain	██████████
Linux	██████████
Git	██████████
Cryptography	██████████
P2P Networking	██████████

Techniques

Documentation	██████████
Optimization	██████████
Debugging	██████████

Overview

Blockchain expert with diverse background and over 15 years of professional software development experience. Thorough and dependable with a preference for thoughtful and maintainable code.

Professional Experience

July 2023 - Present:

Moonsong Labs - Sr. Blockchain Engineer

- *Moonsong Labs is a Web3 engineering services and venture studios company where I currently work on [Starknet](#), a ZK-rollup scaling solution*
- Ported the Starknet OS from Python to Rust, bringing a partially implemented project to completion with support for 100% of public testnet blocks
- Debugged many issues with the OS, including its Merkle Patricia Trie implementation
- Contributed to many adjacent projects in the Starknet ecosystem with bug fixes and new features
- Grew our team from two to six by consistently delivering quality to our client
- Taught Solidity development at the UC Berkeley Polkadot Blockchain Academy

December 2020 - July 2023:

PureStake - Sr. Blockchain Engineer

- *Moonbeam is an Ethereum-compatible Polkadot parachain. PureStake built Moonbeam, one of the first Polkadot Parachains to launch.*
- Developed many core Moonbeam functionalities, including a Rust implementation of the EVM, cross-chain messaging and bridging, txpool, staking, system upgrades, and more
- Coordinated security audits of multiple codebases
- Designed and tuned Moonbeam's congestion-based fee algorithm
- Contributed to upstream codebases such as Substrate (now polkadot-sdk)
- Implemented Moonbeam's General-Purpose Messaging system, which forwarded messages between EVM-based bridges and Polkadot-based ones

September 2019 - August 2020:

Loki Network - Software Engineer

- *Lokinet is an onion-routing privacy network which rewards network operators via blockchain-based incentives.*
- Contributed to multi-layer P2P onion-routing protocol stack
- Devised key-blinding scheme which allows for public DHT storage of semi-private routing information
- Optimized DHT recursion technique for efficiency and privacy
- Designed incentive models for adversarial environments
- Wrote technical portions of white and yellow papers
- Maintained control panel GUI project / github repository
- Collaborated on Python-based loopback testnet which can simulate hundreds of network actors simultaneously
- *Lokinet is entirely open source, find it at <https://github.com/loki-project/loki-network>.*

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January 2010 - Present:

Brewcraft Software - President

- Created an open source electric beer-brewing system complete with a backend server, RPC API, and web UI
- Developed full 3D game engine from scratch, capable of running on multiple platforms (Android, Linux, Windows)
- Implemented algorithms for shape recognition to track live objects and optimized to run at video framerate
- Created custom, multi-platform UI framework to take advantage of OpenGL hardware acceleration

January 2018 - April 2019:

Arrow Electronics - IoT Software Engineer

- Implemented cellular modem driver for MBED OS
- Used REST API to publish IoT device telemetry on multiple technology stacks
- Assisted in project planning and estimations, development scheduling, and system architecture
- Acted as mentor to junior staff

March 2015 - January 2018:

Netscout - Lead Software Engineer

- Led development team in design, implementation, and support of NetScout's AirCheck G2, a handheld WiFi diagnostic tool which provides detailed information about WiFi networks and basic RF measurements
- Designed automated tests to detect assembly failures in the manufacturing process
- Maintained specialized Linux kernel, U-Boot, and WiFi driver forks

January 2012 - March 2015:

Solmirus - Systems Engineer

- Developed the ASIVA (All Sky Infrared & Visible Analyzer), an imaging and analysis instrument capable of running autonomously and reliably in all weather conditions while processing gigabytes of image data per hour
- Implemented high performance async TCP message bus with guaranteed message delivery
- Created REST API for 3rd parties to extract acquisition data

February 2011 - January 2012:

Group Systems - Sr. Software Engineer

- Built the next-gen version of ThinkTank, a collaboration tool used around the globe by successful businesses and governments such as NASA, Raytheon, Procter & Gamble, and IBM
- Designed and implemented browser-based message bus to create a robust User Interface with "installed-app" feel

August 2006 - December 2010:

Intrameta Corporation - Software Engineer

- Developed BOSS, a hosted operations support systems (OSS). BOSS was used by many regional telecoms, ISPs, and service centers to provide device management (DHCP, RADIUS), trouble ticketing, provisioning, and customer data hosting (e-mail, website, and FTP).
- Implemented client and server software for protocols based on RFCs including HTTP, DHCP, SMTP, FTP, POP and IMAP
- Led design of an end-to-end encrypted email server to meet emerging industry encryption requirements

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Education

2005 - 2006:

Internship at Intrameta Corporation

2004 - 2005:

Studied Computer Science (University of North Texas)

Note about this resume

This resume was created with ReactJS (Javascript/HTML/CSS). See the related github repo at <https://github.com/notlesh/stephen-shelton-resume> for more info.

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