GREGORY SHUFLIN

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M https://github.com/gshuflin (professional)

https://gitea.everydayimshuflin.com/greg (personal)

Qualifications and interests

Motivated, professional computer scientist with broad expertise across several disciplines of industry and open-source software development:

- Programming language, parsing, and typechecking theory, strongly-typed functional programming languages, Scala, Haskell, Elm, Rust.
- Network programming and troubleshooting (OSI model layer 2-4, TCP/IP, IPv6, Ethernet), hardware and software packet processing, embedded Linux hardware bringup, writing clear and maintainable C and C++. Can solder if necessary.
- Full-stack web development, PostgreSQL, Ruby on Rails, Django (Python), modern Javascript (frontend and Node.js) and Javascript tooling (grunt/webpack/npm). I'm a fan of React.js.
- Linux system administration in production cloud environments, Docker containerization, AWS/Terraform experience. I have a running 4U VM server on a shelf in my apartment.

Education

University of California, Berkeley

Bachelor of Arts, Computer Science, Linguistics, Japanese Language Relevant Coursework: Artificial Intelligence, Compilers, Operating Systems, Algorithms, Data Structures, Computer Graphics

Professional Experience

Toolchain Labs

Software Engineer

- Primarily responsible for contributing business-critical features/bugfixes to the Pants (https://github.com/pantsbuild/pants) open-source build system.
- Python metaprogramming and gradual typing, performance-critical Rust, collaborating with company-external contributors in a spirit of good open-source citizenship.

3D Robotics

Senior Software Engineer

- Backend/devops engineer primarily responsible for feature development and cloud provisioning for a Scala web API backend for drone data.
- Built processes for managing diverse geospatial and photogrammetry data, and computer vision workflows.
- Relevant buzzwords include: AWS, TensorFlow, OpenCV, Docker, PostgreSQL, Couchbase NoSQL, Terraform, Akka, GDAL, quadrotor drones.

Cisco Meraki

Software Engineer

 Primarily responsible for feature development and support of several different models of cloud-managed Ethernet switches and WiFi access points.

4214 Montgomery St Oakland, CA, 94611

San Francisco, CA June 2019 - present

Berkeley, CA

August 2007 - December 2012

San Francisco, CA May 2013 - June 2017

June 2017 - June 2019

- Healthy mix of embedded Linux firmware development on networking hardware (C++) and full stack web development (Ruby on Rails/PostgreSQL/React stack + a little Scala).
- Designed and built WiFi statistics monitoring widget with d3 + React, looks cool in demos and saved at least one deal.
- Regular troubleshooting and debugging of hardware and software in production network environments.

Waypoint Homes

Oakland, CA May 2011 - August 2011

- Software Developer (Summer Internship)
 - Built a custom iPad app to improve the efficiency of real estate inspectors in environments with weak network connectivity, including writing documentation.
 - Rewrote and overhauled Salesforce/Apex-based business logic for real estate pricing calculations.
 - Adapted HTML5/Javascript-based mapping applications to work effectively in mobile device browsers.

Personal Open-source Projects

- Untrusted (alex.nisnevich.io/untrusted) An open-source browser-based roguelike game where the player must edit the game's code to progress. One of two primary developers. Early version won 1st place in Spring 2013 Berkeley CSUA Hackathon,
- Hilite (Rust port)(https://crates.io/crates/hilite) Rust port (with a few new features) of Hilite, a simple command-line utility to highlight stderr output, useful for build systems.