Kevin D. Conley

Contact Information

Address: Sacramento, CA 95628
GitHub: `https://github.com/kevincon`

Professional Experience

Intel Corporation, Folsom, California
Senior Validation Engineer, Non-Volatile Memory Solutions Group **April 2019 - October 2021**

- Developed integration tests, pytest plugins, and tool scripts in Python to validate Optane solid state drive (SSD) firmware
- Created mypy plugin to type check ctypes structs and unions
- Enabled automated protection from Python 3 compatibility regressions in continuous integration (CI) for a Python 2 code base that was incrementally updated to support Python 3
- Triaged, debugged, and fixed nightly regression test failures

Graphics Software Engineer, Visual & Parallel Computing Group **June 2018 - April 2019**

- Wrote code and tests for internal graphics driver test automation framework written in Python, Go, and Angular (JavaScript/TypeScript)
- Served as Agile scrum master including leading sprint retrospectives, sprint planning meetings, daily stand-ups, and major incident post-mortem meetings
- Provided customer support to internal engineering teams

Firmware Engineer, New Devices Group **January 2017 - June 2018**

- Supervised a remote team of firmware engineers located in Shanghai and Vancouver
- Wrote graphics, UI, and application platform firmware in C for the Vaunt smart glasses
- Built up firmware unit test infrastructure based on Criterion unit testing framework
- Setup developer and continuous integration environment containers using Vagrant and Docker
- Transitioned five large codebases to a monorepo while preserving git commit history

Pebble Technology, Redwood City, California
Embedded Firmware Engineer **April 2015 - December 2016**

- Served as Technical Lead of the Watch User Experience team during development of the Pebble Time Round, Pebble 2, and Pebble Time 2 smart watches
- Implemented user interfaces, animations, applications, and services in C for all Pebble watches
- Supervised and mentored college interns

Stanford University, Stanford, California
Mobile Applications Developer **Summer 2013**

- Developed open-source iPhone app for Stanford's shuttle bus system in Objective-C and Swift
- App became Stanford's official shuttle bus app and has been downloaded over 10,000 times

NASA Langley Research Center, Hampton, Virginia
LARSS Post-graduate Engineering Intern **Summer 2012**

- Programmed PowerPC-based avionics in C using the VxWorks 653 real-time operating system
- Wrote runtime verification monitors in Haskell using a domain specific language called Copilot
- Contributed software patches to BeRTOS, an open-source real-time operating system
- Mentored and supervised a high school student intern

Education

Stanford University, Palo Alto, California
Master of Science in Electrical Engineering, Stanford Graduate Fellow **June 2014**

University of Pennsylvania, Philadelphia, Pennsylvania
Bachelor of Science in Electrical Engineering, Minor in Mathematics **May 2012**