Preston Crowe

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EDUCATION

University of Washington — Seattle, WA
Computer Science: GPA: 3.72 — *Sep. 2016 – June. 2020*

Relevant Coursework: Networks, AI, Hardware/Software Interface, Data Structures and Parallelism

EXPERIENCE

F5 Networks — Seattle, WA
Software Intern — *June 2018 - September 2018*

- **F5 Labs**: I worked with a team of security researchers at F5 Labs to develop a serverless vulnerability data pipeline and API (Amazon S3, Lambda, ElasticSearch, Gateway). I visualized attack data including a live threat map and contributions to Black Hat talk. I processed vulnerability data in order to answer questions related to my team's research.

NASA AMES Research Center — Mountain View, CA
Software Intern — *June 2017 - September 2017*

- **OpenMCT**: OpenMCT is an open source mission control framework developed in AngularJS. I implemented JSON import and export functionality for workspaces and folder hierarchies, allowing for standardization of layouts across teams. The software is still being tested extensively at JPL and with the addition of modular workspaces, the process of creating and sharing demo environments has been expedited. Worked on a large team in an enterprise environment; wrote extensive tests for each piece of code I contributed.

Marin SAT Prep — San Rafael, CA
Android Developer — *September 2016 - December 2016*

- **TestClock**: Developed a series of Android applications for a test prep center. The timers provided a visual for 20 - 30 students taking practice tests in house, as well as a resource for independent study. Both applications (SAT and ACT variants) are published and available for download on the Google Play Store.

MV Code Club — Mill Valley, CA
Programming Instructor — *November 2015 - September 2016*

- **Instructor**: Taught middle school age students programming concepts through project based learning. Encouraged students to take on large assignments spanning several weeks, most often utilizing the p5js drawing library. Lead classes in Javascript, HTML/CSS, Python, and Unity/C#, all of which I taught myself to get the job.

PROJECTS

- **Goodwill Bot**: Watches shopgoodwill.com (auction site) and sends me an email when an interesting item is about to sell for a low price. Easily configurable.
- **Riemann Sum Visualization**: Web applet that allows students to plot a curve and compute a variety of Riemann Sum values with custom function, bounds, and interval size. Built as a tool for my high school calculus teacher to use in his classroom as well as a method of checking my own answers on assignments. It is freely available online for curious students to experiment with.
- **MTG Life Counter App**: Android application that keeps track of one or two player's life totals during a game of Magic: The Gathering. The application supports both EDH and standard formats. The source code is freely available on my Github page.

PROGRAMMING SKILLS

- **Proficient:** Javascript, Python, Java, Android SDK, Git, React, d3, C, GNU/Linux

- **Lots of experience:** NodeJS, AngularJS, AWS Services (S3, Lambda, ElasticSearch, Gateway)