

Shane Tully

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Education

B.S. in Computer Science

Pennsylvania State University, University Park, PA

Cumulative GPA: 3.23/4.00

Experience

Karat

Seattle, Washington

Software Engineer

January 2014 – Present

- Built core product and supporting infrastructure from the ground up on Rails.
- Formulated structured scoring system for assessing technical interviews of software engineering candidates.
- Decreased interview turnaround time by 70%.
- Managed company infrastructure on AWS.
- Responsible for updating and maintaining production Linux servers.

Mozilla Corporation

San Francisco, California

Software Engineering Intern

May 2013 – August 2013

- Implemented contacts WebAPI in Firefox for Android.
- Created library for the Gecko engine to be used in third-party Android applications.
- Fixed various bugs in Firefox for Android.

Pennsylvania State University Chemistry Department

University Park, Pennsylvania

Web Programmer

June 2011 – December 2013

- Developed homework, syllabus, and eBook Drupal/PHP modules for online chemistry courses.
- Built interactive atomic orbital visualization webpages with JavaScript and Java.
- Managed Git server for other team developers.

Activities & Projects

- Open source contributor: <https://github.com/shanet>.
- Seven years Linux and server administration experience.
- Volunteered as webmaster and officer for the Penn State ACM student chapter for three years.
- Developed AES encrypted, cross-platform chat application in Python and QT.
- Wrote API and server for networked, autonomous robot utilizing an iRobot Create and Microsoft Kinect.
- Participated in PennApps Fall 2013; won best mobile app with an Android application which uninstalled unwanted applications after a given time interval.
- Built encrypted server and client for controlling volume and multimedia on Linux desktops with C++, OpenSSL, and Android.
- Created interactive LED lighting system with IR sensors and an Arduino.
- Made home automation system to control electrical outlets over a network with Android and NFC tags.