Joshua Li

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Education

Pennsylvania State University   University Park, PA
B.S. Computer Science, 3.78 GPA   *Aug 2015 - May 2019*

Experience

Savioke   San Jose, CA
Software Engineering Intern   *May 2017 – Aug 2017*
Worked on software tools used for and by Relay, Savioke's autonomous service robot.

- **Slashed data transmission bandwidth by 98% - ROS** data minimization pipeline written in **Python** and **bash**, deployed to Relays as a **Debian** package
- **Debugging setup process sped up from minutes to seconds -** Relay fleet-wide bagfile search and inspection web app (**Flask** + **JavaScript** + **Gunicorn** + **Apache** reverse proxy)
- **Reduced codebase size 10-fold -** high-abstraction, succinct **Python** interface to business-wide configuration data

Musical Minds LLC   State College, PA
Lead Backend Engineer   *Sep 2016 – Jan 2017*
Designed, built, and deployed a provisional web **REST API** using **Flask**, Amazon Web Services Elastic Beanstalk (**AWS EB**), and **DynamoDB** as a mobile backend.

Penn State Applied Research Laboratory   State College, PA
Distinguished Researcher, Software Engineering Intern   *May 2016 – Aug 2016*
Created a **Java** application that plotted data graphs in 3D **Virtual Reality** space and allowed the viewer to navigate within using the Oculus Rift and a Xbox One controller.

Projects

tildeslash.io   *Sep 2017 - Ongoing*
Personal blog for documenting some of my programming pursuits and experiences. Built with **Hexo**, **Sass**, **Pug**, and **Gulp**. Deployed behind Cloudflare for HTTPS and content caching.

pylibgen   *Jul 2017 - Oct 2017*
Python interface to Library Genesis. Set up with **Travis CI** for builds and unit testing, and published live on the Python Package Index (**PyPI**).

blastmine   *Jun 2017 - Jun 2017*
AWS EC2 server provisioning en masse via **Python** and **Shell** scripts. Instantly configures up to 280 remote **Ubuntu** 16.04 instances over SSH to mine Litecoin.

ghJuicer   *Jan 2017 - Feb 2017*
Python script that automates the process of extracting metadata belonging to millions of GitHub accounts into a **SQLite** database.