

Experience

Software Engineer, **Express Scripts - Bloomington, Minnesota**

- Developed internal server management toolset using Java, Springboot, React.js, and bash scripts to automate time-intensive maintenance tasks. Authenticated users with LDAP.
 - Cut workload in half, due to multiple server selection and asynchronous command
 - Start, stop, restart, status, tailing logs, and SSH shortcuts on 15 team's 20+ servers.
 - Initially limited knowledge of Java and Springboot, LDAP and within the 2 month project duration, learned the language and framework to satisfy the project requirements
- Researched and developed complete internal Django application to compare cloud computing machine learning solutions to an 'in-house' solution.
 - Wrote and presented a report for VP level executives summarizing cost and performance
 - Educated on the importance and use cases of a machine learning solution in the business.

Java, Springboot, React.js, LDAP, Bash, Django, Cloud Computing, Machine Learning

Software Engineer, Designer **86FSS Marketing - Ramstein, Germany**

- Developed new website with Wordpress, coded plugins in React.js, and designed modern web pages reaching a user base of over 100,000 military members in the largest American community outside of the US (86fss.com)
- Implemented Django API to connect Webtrack payment and inventory software to the first of it's kind Air Force Support Squadron E-commerce shop (86fss.com/shop)
- Learned the Adobe suite, designed web page mockups, flyers, posters, and logos

Wordpress, React.js, Django, Adobe CC

Software Engineer Instructor, Project Manager **SiliconValley4u - San Ramon, California**

- Instructed in-person classes of 6-18 year olds in Python and Web Development
 - Machine Learning/statistics, Tensorflow, and sklearn
 - Web development - front and back end using Django and React.js
 - Security - DDOS, cross-site scripting, SQL injection, OWASP Juice Shop for practice
- Led a team of 5 engineers to create a tax application for a local business using Django, Firebase, React.js, and Quickbooks API

Python, React.js, Firebase, Django, Tensorflow

Software Engineer, API **Deckstr, Petpal - Silicon Valley, California**

- Developed Django API to communicate with 2 startup's iOS applications
- Developed and refactored existing iOS code to work with API calls

Swift, Xcode, Alamofire, Firebase, Django, GraphQL, Uvicorn

Projects

Orbit Determination <https://github.com/chrishorton/Orbit-Determination>

- Using orbital dynamics math and algorithms from Fundamentals of Astrodynamics, implemented Python solvers for radar observed satellites, rockets, comets, and other astronomical bodies. Created blog post with the math, code, and explanations.
- [Blog Post](#)

Python Code <https://github.com/chrishorton/Python-Code-Samples>

- Created during my time at Siliconvalley4u using Python, Machine Learning, Pygame, Fundamentals, and Algorithms

Wake Word Detector <https://github.com/chrishorton/Hands-Free-Presentation>

- Best Presentation Award for Powerpoint slide show assistant
- Continued development to a machine learning model of my voice using tensorflow