



Experience

- 2015-04-02 — Present **Amazon.com** in Seattle, WA
Software Development Engineer II — Marketplace Shipping Services
- Led, designed, implemented, and launched new public web service to purchase shipping labels for Amazon orders
 - Provided external developer support during public beta of shipping label web service
 - Coordinated team of six developers in working in parallel in same codebase
- 2013-08-12 — 2015-04-02 **Amazon.com** in Seattle, WA
Software Development Engineer I — Marketplace Shipping Services
- Wrote script to find fatal error root-causes in logs across three web services
 - Reduced fatal errors from 1,100 fatals per million requests to 200 fatals per million
 - Contributed to Amazon-internal tools to read and transform missing log data
 - Contributed new library to Amazon community to set outgoing request ID for web service calls
 - Developed and maintained Java service that processed 28 requests per second (at peak)
 - Designed asynchronous workflow-based service to purchase up to 500 shipping labels and merge into single PDF
 - Identified multiple production security vulnerabilities; critical vuln. fixed in prod within 24 hours
- 2012-04-01 — 2012-09-01 **Lockheed Martin MS2** in Moorestown, NJ
Coop Technical Senior — Information Assurance (IA)
- Scan mission-critical systems for vulnerabilities with automated and manual tools
 - Harden mission-critical systems by applying updates and patches
 - Research new scanning software to comply with new DoD standards requirements
 - Write Excel plugin to automatically format data for vulnerability reports
 - Coordinate with senior engineers and senior executives for weekly status updates
 - Create departmental wiki for tool documentation and usage tips
- 2011-03-01 — 2011-09-01 **Lockheed Martin MS2** in Moorestown, NJ
Coop Technical Senior — Computer Infrastructure & Integration Testing
- Wrote Bash scripts to expedite deployment and integration processes
 - Developed, tested, and documented backup procedures for servers, diskless & iSCSI disk-based nodes
 - Worked alongside Sr. Engineers in development of Cisco IOS applet to monitor CF cards containing critical ship status information
 - Wrote VBA script to categorize 4000+ pieces of equipment for proposal
 - Refreshed firmware update procedure deployed to soldiers and used on 100+ systems within LM
 - All work used on US Government Secret classified systems

Notable Side Projects

- 2015-08-25 **PNRG (Poorly Named Resume Generator)** — Templated resume source generator
Goal: Reduce effort required to maintain multiple parallel resume formats
Status: In-use, not-yet published
Future: Under active development
- 2015-01-09 **Rush** — POSIX shell implementation in Rust
Goal: Teach myself Rust
Status: Basic functionality complete; parser not complete
Future: Development on-hold, pending free time and Rust maturity
- 2011-05-04 **Textspansion** — Text expansion for Android devices
Goal: Add missing features to Android ecosystem while learning Android dev paradigms
Status: Released June 2011
Future: Development on-hold indefinitely

Education

Drexel University in Philadelphia, PA
BS in Computer Engineering
BS in Electrical Engineering (Electronics)
Minor in Computer Science

Graduated: 2013-06-13
Cumulative GPA: 3.58 | In-major: 3.63

Skills

Languages

- Bash/POSIX shells
- C
- Java
- \LaTeX
- Python
- Perl (forever rusty)
- Rust (casual observer)

Operating Systems

- Linux (Arch, Debian, Fedora, RHEL, Ubuntu)
- Unix (Solaris 9)
- Mac OS (10.5, 10.6)

Tools

- vim
- GNU coreutils
- git, mercurial
- Spring
- Django
- AWS S3, DyamoDB, SQS, SNS

Paradigms

- Distributed systems
- Service-Oriented Architectures (SOA)
- Relational databases
- Nonrelational databases