







## 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

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## 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