





## Experience

- Apr 2015 — Present **Amazon.com** 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 six months of public beta of shipping label web service
  - Coordinated team of six developers working simultaneously in new codebase
  - Supported and advised team of developers based in India for contributions to my team's codebase
- Aug 2013 — Apr 2015 **Amazon.com** 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 per million requests to 200
  - Contributed to internal tools to read and transform log data
  - Contributed new library to Amazon community to set outgoing request ID for web service calls
  - Developed and maintained Java service capable of processing ~1,000 requests per-second (peak)
  - Designed an asynchronous workflow-based service to purchase up to 500 shipping labels and merge into single PDF
  - Identified multiple production security vulnerabilities; critical vulnerability fixed in prod within 24 hours
- Apr 2012 — Sep 2012 **Lockheed Martin MS2** Moorestown, NJ
- Senior Technical Co-Op — Information Assurance (IA)
- Scanned mission-critical systems for vulnerabilities using automated and manual tools
  - Hardened mission-critical systems by applying updates and patches
  - Researched new scanning software to comply with emerging DoD standards requirements
  - Wrote Excel plugin to automatically format data for vulnerability reports
  - Coordinated with senior engineers and senior executives for weekly status updates
  - Created departmental wiki for tool documentation and usage tips
- Mar 2011 — Sep 2011 **Lockheed Martin MS2** Moorestown, NJ
- Senior Technical Co-Op — 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 Senior Engineers in development of Cisco IOS applet to monitor memory 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

- Aug 2015 **PNRG (Poorly Named Resume Generator)** — Templated resume source generator  
Goal: Reduce effort required to maintain multiple parallel resume formats  
Status: In-use and published
- Jan 2015 **Rush** — POSIX shell implementation in Rust  
Goal: Teach myself Rust  
Status: Basic functionality complete, parser shelved pending free time
- May 2011 **Textspansion** — Text expansion for Android devices  
Goal: Add missing features to Android ecosystem while learning Android dev paradigms  
Status: Released June 2011, featured on Lifehacker.com in Sept 2011

# Sean Barag

Seattle, WA   
+1(215)-380-8844   
sjbarag@fastmail.fm   
<http://github.com/sjbarag> 

## Education

### Drexel University — Graduated Jun 2013

BS in Computer Engineering  
BS in Electrical Engineering (Electronics)  
Minor in Computer Science

Philadelphia, PA  
Cumulative GPA: 3.58 | In-major: 3.63

## Skills

### Languages

- Bash/POSIX shells
- C
- Java
- L<sup>A</sup>T<sub>E</sub>X
- 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, DynamoDB, SQS, SNS

### Paradigms

- Distributed systems
- Service-Oriented Architectures (SOA)
- SQL and NoSQL databases