



## Experience

Jun 2021 — Present	<b>Hulu, LLC</b> Interim Software Development Manager — Living Room	Seattle, WA
Mar 2020 — Present	<b>Hulu, LLC</b> Principal Software Developer — Living Room <ul style="list-style-type: none"><li>· Led team of 7 devs through complete UI rewrite, from prototyping to launch</li><li>· Implemented Redux pattern in Roku ecosystem</li><li>· Continued public maintenance of Hulu open-source projects (brs, roca, linter)</li><li>· Integrated OSS browser automation framework for automated UI testing</li><li>· Formal mentor to two other devs at Hulu</li></ul>	Seattle, WA
Mar 2018 — Mar 2020	<b>Hulu, LLC</b> Senior Software Developer — Living Room <ul style="list-style-type: none"><li>· Maintained Hulu app on Roku, written in Roku-proprietary language</li><li>· Led team of 5 devs to launch Hulu on Amazon Echo Show</li><li>· Released splitshot (see open-source contributions) in public, including Hulu Tech Blog post</li><li>· Integrated device-free unit testing for Roku app</li><li>· Became internal point of contact for all Hulu open-source releases</li></ul>	Seattle, WA
Mar 2016 — Mar 2018	<b>Hulu, LLC</b> Software Developer — Living Room <ul style="list-style-type: none"><li>· Maintained HTML/CSS/JS Hulu app on consoles, smart TVs, etc.</li><li>· Worked with team of 4 to launch profiles support in HTML app</li><li>· Embedded with backend team to build initial version of client-facing content API for live TV</li><li>· Investigated app performance for Hulu with Live TV launch</li><li>· Implemented view-model pattern in backend and in Hulu on Roku</li></ul>	Seattle, WA
Apr 2015 — Mar 2016	<b>Amazon.com</b> Software Development Engineer II — Marketplace Shipping Services <ul style="list-style-type: none"><li>· Designed, implemented, and launched new public web service to purchase shipping labels for orders</li><li>· Supported external users during six months of private beta of shipping label web service</li><li>· Coordinated team of six developers working simultaneously in new codebase</li><li>· Supported and advised team of India-based developers for contributions to my team's codebase</li></ul>	Seattle, WA
Aug 2013 — Apr 2015	<b>Amazon.com</b> Software Development Engineer I — Marketplace Shipping Services <ul style="list-style-type: none"><li>· Reduced fatal errors from 1,100 per million requests to 200</li><li>· Contributed to internal tools to read and transform log data</li><li>· Developed and maintained Java service capable of processing ~1,000 requests per-second (peak)</li><li>· Designed asynchronous workflow-based service to purchase up to 500 shipping labels merged into single PDF</li></ul>	Seattle, WA
Sep 2012 — Jun 2013	<b>Drexel University Capstone Project</b> Embedded Software Developer — Waterproof Recording Ammeter <ul style="list-style-type: none"><li>· Evaluated microcontrollers for power consumption and peripheral support</li><li>· Designed supporting circuits for PIC 18F microcontroller and sensors</li><li>· Implemented I2C sensor readings via vendor library</li><li>· Implemented data persistence on SD card via SPI via vendor library</li><li>· Built USB serial support for configuration via PC</li></ul>	Philadelphia, PA
Apr 2012 — Sep 2012	<b>Lockheed Martin MS2</b> Senior Technical Co-Op — Information Assurance (IA)	Moorestown, NJ
Mar 2011 — Sep 2011	<b>Lockheed Martin MS2</b> Senior Technical Co-Op — Computer Infrastructure & Integration Testing	Moorestown, NJ



## Notable Side Projects

- Oct 2020 ○ **thcon** — A configurable CLI tool that switches multiple apps between light and dark themes  
Goal: See my screen better in the sun with fewer steps, teach myself Rust  
Status: Published and actively developed  
<https://github.com/theme-controller/thcon>
- Dec 2017 ○ **brs** — BrightScript interpreter implemented in TypeScript  
Goal: Enable off-device testing by implementing (from-scratch) the language Roku apps are written in  
Status: Maintained with coworkers and in active use  
<https://github.com/sjbarag/brs>
- Aug 2015 ○ **PNRG (Poorly Named Resume Generator)** — Templated resume source generator  
Goal: Reduce effort required to maintain multiple parallel resume formats  
Status: Frozen; updated as-needed  
<https://github.com/sjbarag/poorly-named-resume-generator>
- 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, now deprecated

## Notable Open-Source Contributions

- Sep 2020 ○ **git** — Added support for clone.defaultRemoteName config  
Status: Submitted and released in 2.30  
<https://github.com/git/git/compare/54e85e7af1...de9ed3ef37>
- Jan 2019 ○ **roca** — Roku unit testing framework implemented on top of brs  
Status: Developed in public, released, actively maintained with peers  
<https://github.com/hulu/roca>
- Jan 2018 ○ **splitshot** — Generates TypeScript declarations from CoffeeScript sources  
Status: Developed internally, released, frozen  
<https://github.com/hulu/splitshot>
- Sep 2017 ○ **TypeScript** — Automatically inherit JSDoc comments subclasses and subinterfaces  
Status: Submitted and released in 2.7  
<https://github.com/microsoft/TypeScript/pull/18804>

## 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
- Docker (as needed)
- Java
- JavaScript / TypeScript
- $\text{\LaTeX}$
- Python
- Rust (still learning)

### Operating Systems

- Linux (Arch, Debian, Fedora, RHEL, Ubuntu)
- Unix (Solaris 9)
- Mac OS (10.5, 10.6, 10.15)

### Tools

- AWS S3, DynamoDB, SQS, SNS, Lambda
- DBus
- git
- vim

### Paradigms

- Distributed systems
- HTML Single-Page Apps (SPA)
- HTTP REST (client and server)
- Language Interpreters
- Service-Oriented Architectures (SOA)
- SQL and NoSQL databases