

## Languages

*Java*: advanced; *C*: advanced/intermediate; *Python*: intermediate; *HTML/CSS*: familiar; *x86*: familiar; *ARMv4*: familiar

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## Projects (links given for projects hosted on public repositories)

- + [BitTorrent Client](#), written in Java.
  - + [Zero Hop DHT Distributed File System](#), written in Java.
  - + [Fault Tolerant, Strongly Consistent Data Replication Service](#), built with Spring, written in Java. [\[demo video\]](#)
  - + [Microservice Ticket Purchase Application](#), built with Spring, written in Java.
  - + [Distributed Chat Server](#), implementing UDP, written in Java.
  - + [ARMv4 Assembly Language Emulator](#), with interactive execution mode, written in C.
  - + [Unix Shell](#), with input and output redirection functionality, written in C.
  - + [Heap Manager module](#), including implementations of `malloc()` and `free()`, written in C.
  - + [Reentrant Read/Write Lock module](#), to manage concurrent data processing, written in Java.
  - + [Autocomplete module](#), written in Java.
  - + [Burrows-Wheeler compression module](#), compatible with any unix file, written in Java.
  - + [TripAdvisor style website](#), written in Java, with SQL backend, and front end built with Bootstrap and Velocity.
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## Education

**University of San Francisco, San Francisco, CA**, Master of Science in Computer Science 2017- 2019

- + [GPA](#): 4.0
- + [Scholarship](#): MSCS Merit Scholarship
- + [Coursework](#): Data Visualization; Distributed Software Development; Big Data; Principles of Software Development; Systems Foundations; Algorithms; Master's Project
- + [TA Position](#): Algorithms

**Princeton University, Princeton, NJ**, Non-degree courses taken while working 2015 - 2016

- + [Coursework](#): Introduction to Computer Science; Linear Algebra; Algorithms and Data Structures; Introduction to Programming Systems

**Colorado College, Colorado Springs, CO**, Bachelor in Neuroscience 2009 - 2013

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## Experience

**DevOps Software Engineer Intern, Optimizely, San Francisco, CA** 06/18 - 09/18

- + Built flaky test dashboard, which ingested, analyzed, and visualized company-wide test data.
- + Created an AI phrase recommender feature for the company website. Won 2nd place in Hack Week.

**Research Assistant, Neuroscience of Cognitive Control Lab, Princeton University, NJ** 06/16 - 05/17

- + Developed a library of network visualization functions for a cognitive modelling python package.
- + Configured and maintained CI/CD pipeline for the small software team.

**Data Curator, Princeton Neuroscience Inst. - Intel Labs Collaboration, Princeton University, NJ** 01/15 - 05/17

- + Built and maintained a large linux based repository of fMRI datasets generated by researchers, for use in algorithm development by collaborating Intel engineers.
- + Automated file anonymization, dataset restructuring, file conversion, and data transfer using bash, Python, and Matlab scripts.

**Lab Manager, Turk-Browne Cognitive Neuroscience Lab, Princeton University, NJ** 06/14 - 09/15

- + Designed, built and conducted experiments investigating interactions between memory and sleep.
- + Worked with a small team to develop the premier infant cognitive neuroimaging research program.
- + Built, maintained, and updated lab and conference websites using Wordpress.