

## Overview

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I am enthusiastic about learning, an experienced software engineer in test, and a passionate outdoorsman. I love challenges and grasp new problems quickly, and can effectively communicate complicated ideas in simple language. I have experience in research labs at CU Boulder and Tufts University and in software development at large hybrid cloud companies in Boston and Boulder.

## Experience

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### NetApp

December 2018 – Present

Software Engineer in Test with the SolidFire group. Currently designing and developing reliable, scalable, and maintainable test automation to validate complex features of the NetApp Hybrid Cloud storage backend. I was the lead developer behind the effort to automate virtual network testing for NetApp’s latest stack release and serve as an admin reviewer for the test code base. I also built an intelligent scheduler that syncs with the organization’s release schedule to trigger Jenkins test runs on a prioritized cadence.

### BeingSattvaa

December 2018 – Present

Freelance Web Developer Created and modernized web presence for Singapore-based startup. Features added include HTTPS support; secure booking with iChronoz; and automatic emailing, in addition to content maintenance and SEO optimization.

### Hitachi Vantara

August 2017 – September 2018

Software Quality Engineer on the HCP-Anywhere team. Improved quality best practices through design and implementation of novel reviewboard integration with in-house test tracking software; streamlined test processes via scripting, automating tests, and automating deployment of test environments

### Tufts University

January 2015 – May 2017

Teaching Assistant for the Data Structures (COMP-0015) class. Designed and deployed new in-person grading techniques for sorting algorithms project; tutored students in asymptotic complexity, data structures concepts and applications, and programming fundamentals; hosted collaborative grading groups with other TAs to improve the CS department’s grading consistency, transparency, and accountability.

### University of Colorado - Boulder

May 2015 - August 2015

Research Assistant in the Martin Lab studying antibiotic resistant bacteria in the local watershed. Designed and deployed an interactive website tracking locations of native resistance; designed my own experiments; documented reproduction steps.

## Research

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### Bee Trophallaxis with Correlated Random Walks

February 2019 – October 2019

Research assistant in the Peleg lab simulating bee movement within hives as correlated random walks with varying degrees of deviation to understand the connectivity of a hive system

### Technology and International Migration

February 2015 – June 2015

As part of an international development hackathon, I built a web application for the location and distribution of useful resources, designed for the refugee population of Lesbos, Greece. Following that I pivoted my project to a research paper on tech-for-justice hackathons around the world and their relative benefits to the migrant community.

## Computer Simulation of Liquids

September 2013 – April 2014

Undergraduate computational chemistry research in the Lin group at Tufts University designing algorithms for particle-particle interaction

## Education

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### Tufts University

August 2013 – May 2017

Bachelor's of Science - Computer Science

Coursework in CS: **Algorithms** • Data Structures • **Theory of Computation** • Machine Structure and Assembly Language Programming • **Computational Biology** • Web Programming • **Data Mining** • **Artificial Intelligence** • Discrete Math • Linear Algebra • **Structure and Function of Complex Networks** • User Interface Design • **Computing for Developing Regions**

Other Coursework: Multivariable Calculus • Organic Chemistry • Differential Equations • Creative Writing x3 • Linear Models in R (edX) • Convolutional Neural Networks in Python (Coursera) • Earth Data Analytics (CU Boulder Earthlab) • Deep Learning in Python (Udemy)

## Technical Skills

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### 1. *Data Analytics and Simulations* 2. *Development*

1. Languages | Packages: Python • R • SQL • Processing | scikit-learn • pandas • PyTest • NetworkX • matplotlib • tidyverse • numpy • scipy • NetLogo • sqlalchemy • Dash
2. Languages | Software: Python • Java • Javascript • C++ • C • HTML5/CSS • php • SQL • Groovy • go | vmware • git • Docker • JIRA/Confluence • Jenkins • PostgreSQL • MS Office • Linux, Windows, Mac OS

## Leadership

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### NetApp Solidfire, Admin Code Reviewer

December 2019 – Present

I gatekeep code quality to Solidfire's test code repository called Valence. I read thirty to forty code reviews a week and provide feedback, constructive criticism, and maintainability advice to engineers across many teams.

### Hitachi Intern Program, Mentor

April 2018 – August 2018

Taught, mentored, and facilitated the professional development of two summer interns, both current undergraduate students. Under my guidance, one of the interns exceeded productivity levels of several full-time employees on my team.

### Tufts Wilderness Orientation, Leader

August 2014 – May 2017

Guided groups of incoming first-year students on weeklong backpacking trips in the White Mountains of New Hampshire, with a co-leader, representing the school and working to embolden and empower first-year students