Owen Martin

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"The place to improve the world is first in one's own heart and head and hands, and then work outward from there." –Robert Pirsig

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Overview

I am an enthusiastic and team-oriented software developer and lifelong student. Known for my can-do attitude and energy, I love tackling and solving new and difficult problems regardless of field or function, and I am eager to pursue the relevant research required to do so.

Experience

NetApp **December 2018 – Present**

Software Engineer in Test on the SolidFire performance team. Designing CICD framework to increase automated test coverage of performance features by 300%

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.

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 scriptwriting, 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.

Education

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)

Technical Skills

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

1. Languages | Packages: Python • R • SQL • Processing | scikit-learn • pandas • PyTest • NetworkX • matplotlib • tidyverse • numpy

2. Languages | Software: Python • Java • Javascript • C++ • C • HTML5/CSS • php • SQL | git • Angular.js • React.js • jQuery • JIRA/Confluence • Bootstrap • postgresql • MS Office • Linux, Windows, Mac OS

Leadership

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

Research

Bee Trophollaxis with Correlated Random Walks **February 2019 – Present**

Research assistant in the Peleg lab simulating bee movement within hives as correlated random walks with varying degrees of deviation to understand how 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 Lesvos, Greece. Following that I pivoted my project to focus on hackathons and their usefulness as a forum for tackling problems in international migration.

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