Owen Martin | Information Scientist

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Software engineer specializing in product quality, holistic design, and team communication. Lifelong learner with a passion for data science, shorebird ecology, and agent-based simulation models. Known to cook, climb, and catch frisbees.

Previous Employment

Hitachi Vantara **Waltham**
Software QA Engineer, MA *August 2017 - Present*

On the Hitachi Content Platform - Anywhere team. I championed test-driven development and cross-functionality teamwork, working closely with developers and other QA engineers to improve the existing framework for test review.

Tufts University **Medford, MA**
Teaching Assistant *January 2015 - May 2017*

Introduction to Data Structures. I taught an instructional lab diving into fundamental data structures concepts and applications, such as binary search trees, queues, heaps, hash tables, skip lists, and tries; and the asymptotic complexity associated with searching, storing, and accessing data within them. Each week, I held ten office hours to help students with their homework and augment the class lectures with one-on-one and group tutoring. Finally, I graded homework assignments and hosted collaborative grading groups with other TAs to improve the department's grade transparency and accountability.

University of Colorado **Boulder, CO**
Research Assistant *May 2015 - August 2015*

I spent the summer spearheading a citizen science investigation of antibiotic resistant bacteria in the Colorado watershed. This included responsibilities such as collecting water from various ex-situ locations in Boulder County, Summit County, Jefferson County, and Park County; testing my samples for bacterial growth in the presence of antibiotics via Petri dish plating and culturing; building a website to host my findings; and building a template for experimental reproducibility.

Education

Academic Qualifications

Tufts University **Medford, MA**
Undergraduate:, Computer Science Major *2013–2017*
Relevant Coursework: User Interface Design, Machine Learning, Algorithms and Data Structures, Computational Theory, Web Programming, Computational Biology, Linear Algebra, Multivariable Calculus, Discrete Math, Linear Models in R

Fairview High School **Boulder, CO**
Awards:, IB Diploma (35 subscore), National Honor Society, National Merit Scholar *2009-2013*

Technical and Personal skills

- **Programming Languages:**
  1. Development: Python, Javascript, C++, PHP, SQL
  2. Data Analytics: Python, R, Processing
  3. Visualization: LaTeX, HTML, CSS, ggplot2, matplotlib

- **Industry Software:** MS Office products and their Linux equivalents; unix environment; shell scripting; JIRA; Confluence; Asana; Slack; Wireframing; Github; Jenkins; cloud computing architecture

- **Teamwork:** Excellent communication skills, whether written or face-to-face; bridging between levels of expertise; stretching to improve and assess my own functional role

Interests and extra-curricular activity

- **Trip Leader, Tufts Wilderness Orientation** I co-led two five-day backpacking trips in the White Mountains of New Hampshire, one in 2016 and one in 2017, with a different co-leader each year. These trips really honed my leadership skills and responsiblity, and taught me how to work as part of a cohesive unit with another person. I am first aid, CPR, and Wilderness First Aid certified and getting Wilderness First Responder certification in summer 2018.

- **International Migration Research, Tufts International Development Hackathon**I traveled to Lesvos, Greece to perform user experience research on the refugee population and how they use technology, namely smart phones. With this research, I co-authored a paper on technology's influential role in the refugee crisis and subsequently went on to do some volunteer user experience analysis for a French company called ActionEmploiRefugies.

- **Interests** Hiking and backpacking, rock climbing, appreciating music, reading fiction, competitive ultimate frisbee, nature in all its forms, cooking and eating good food, photography, networks and big data, randomness, making art, birds and birdsong, and exploring hidden places