

Samuel Laing

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EDUCATION

Yale University (New Haven, CT)

May 2019

- Bachelor of Science, Computer Science
- Relevant coursework: Natural Language Processing, Parallel Programming Techniques, Design & Analysis of Algorithms, Discrete Mathematics, Artificial Intelligence, Algorithmic Computer Music, Music Technology, Object-Oriented Programming

University of Edinburgh - School of Informatics (Edinburgh, UK)

Jan. - May 2018

- Relevant coursework: Distributed Systems, Operating Systems, Music Informatics

EXPERIENCE

Five Rings Capital, LLC. (New York, New York)

Aug. 2019 - Oct. 2020

Trading Support Engineer (Python, Bash)

- Managed and facilitated continuous release of critical trading applications; improved and automated existing methods.
- Developed and maintained applications, primarily using python, for monitoring and ensuring system health and function.

Snackpass (Boston, MA)

Jun. - Oct. 2018

Software Engineer Intern (Javascript: NodeJS, React Native)

- Worked on a small team in a fast-paced environment building a food-ordering app focused on serving college students and campuses, with over 10,000 active users.
- Developed features, like a restaurant map, for Snackpass's React Native client app and its NodeJS + MongoDB backend.
- Revised React Native client app to increase app performance on Android devices.

Yale University (New Haven, CT)

Jan. 2016 - Dec. 2018

Teaching Assistant for *Introduction to Systems Programming & Computer Organization* (Spring 2018, Fall 2018) (C)

- Held weekly office hours for a class of nearly 200 students to aid in the development of their C programming.

Teaching Assistant for *Real World Information Security* (Fall 2017, Fall 2018) (Python, Bash)

- Authored and graded problem sets covering topics from basic cryptography to modern security protocols.
- Provided feedback and support for students through office hours and Piazza (online forum).

Student Tech Coordinator (Spring 2017) Student Tech (Spring 2016, Fall 2016)

- Troubleshooted and fixed hardware and software problems with student and faculty computers.
- Trained and managed five Student Techs over the course of 3 months.

Capital Area Food Bank (Washington D.C.)

Jun. - Aug. 2017

Food Growing Education Specialist

- Planned and managed community service activities for volunteers at the Urban Demonstration Garden.
- Lead educational presentations for large groups of students ranging from kindergarten to high school.

Software Consulting Associates (Red Hook, NY)

May - Aug. 2016

Software Developer Intern (Javascript: Ember.js, Ruby: Ruby on Rails)

- Worked with a team to develop Muncity Fleet, a web application for vehicle monitoring for municipalities.
- Used Ruby on Rails to develop the backend and Ember.js to develop the frontend.

PROJECTS

Granular Dynamic Stochastic Synthesis ([code](#) - [paper](#)) (C++)

Jan. - Jun. 2019

- Developed several modules for the VCV Rack platform using C++. Implemented a novel method of microsound synthesis using a combination of stochastic processes and granular techniques.

Reverie Hologram (Python, PLC)

Aug. 2016 - May 2017

- Developed an automated 3-dimensional hologram system, requiring the coordination of three projectors and a column of mist, to be used in a student performance.

EXTRACURRICULAR

- Editor of Production & Design at the Yale Daily News; Mentor at Code Haven (after school program to teach middle schoolers computer science basics); Open Music Initiative (DSP research; Supercollider, Haskell) member