Samuel Laing

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EDUCATION

Yale University (New Haven, CT) | May 2019
- Bachelor of Science, Computer Science

EXPERIENCE

Parker (New York, New York) | May. 2023 - present

Founding Backend Engineer [Typescript: Node, React]
- Designed and implemented the company's core financial ledger and reconciliation systems, enabling support for non-standard repayment terms and complex transaction flows.
- Built a high-reliability bank transfer system that powers thousands of user domestic and international transactions each month, processing over $20M in monthly transfer volume.
- Developed robust integrations with third-party banking and compliance platforms, ensuring secure, accurate, and regulatory-compliant data exchange.

Five Rings Capital, LLC. (New York, New York) | Aug. 2019 - Oct. 2020

Trading Support Engineer [Python, Bash]
- Developed Python applications to automate the continuous release of critical trading applications.
- Built and extended Python and Bash scripts for system health monitoring.
- Planned, managed and executed MySQL server upgrades and migrations in a time-sensitive and data-critical environment.

Snackpass (Boston, MA) | Jun. - Oct. 2018

Software Engineer [Typescript: Node, 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, such as a restaurant map, for Snackpass's React Native client app and its NodeJS + MongoDB backend.
- Revised the 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).

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 Municity 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 (more at littlepurpose.dev)

Web Audio Playground [Typescript: Next.js] (code) | 2023
- Built a graph-based visual editor audio synthesis in the browser using the Web Audio API and the Next.js framework.

Lotus Trading [Lisp, Typescript] | 2021 - 2022
- Worked on a team of two to develop a stock analysis engine in Common Lisp using Alpaca and Polygon data apis. Performed sentiment analysis of stocks using GDELT feeds.

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