Leland Wu

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Education

Tufts University Medford, MA

B.S in Computer Science; GPA: 3.70/4.0 *Expected May 2020*

Relevant Coursework: Data Structures, Discrete Mathematics, Machine Structure and Assembly Language Programming, Web Programming, Cybersecurity, Algorithms

Skills

- **Languages**: C++, C, CSS, HTML, Java, Javascript, LaTeX, Python, Rust
- **Technologies**: Elasticsearch, ExpressJS, Flask, Git, Google Cloud, JUnit, MongoDB, VueJS

Experience

Toast Inc. Boston, MA

Software Engineering Intern *May 2018 - August 2018*

- Reimplemented the indexing strategy and query filtering for an internal diagnostics service used to retrieve device event metrics from Elasticsearch.
- Streamlined device monitoring workflow by using Logback to capture all device events in the entire codebase and interface them with a single handler.
- Improved testability of the Android application's core authentication service by refactoring some of its original architecture and testing changes using Mockito and JUnit.
- Designed, developed, and presented an upgraded solution for adding new printer receipt languages, integrating Java web application changes with both the Android app and printer hardware.

Symphony Ventures Boston, MA

Research Analyst Intern *July 2017 - August 2017*

- Analyzed and researched more than 30 internal projects, conducting quantitative analysis on financial metrics regarding Robotic Process Automation projects for companies in the Fortune 500.
- Traveled to UK and Poland offices for two weeks in order to conduct interviews with consultants in order to perform in-depth analysis on past projects.

Tufts University Medford, MA

Teaching Assistant *January 2017 - Present*

- Hold weekly labs and office hours for ~300 students to reinforce concepts taught in Introduction to Computer Science(COMP11) and Data Structures(COMP15).
- Grade homework assignments and exams while providing personal feedback to students to improve their programming skills.

Projects

Chip-8 Emulator · Rust *March 2018 - April 2018*

- Implementation of an emulator for the Chip-8 virtual machine.
- Keyboard and graphics built with SDL2

Schnapz · Javascript *November 2017 - December 2017*

- Web application that uses third party APIs to generate list of recipes based on food-based images that are uploaded to the application.

Arith · C *October 2017*

- Command-line based program that implements a lossy compression algorithm to decrease the size of images.
- Compressing and decompressing the same image results in 97 – 99% data retention.

Speechy · Python *August 2017*

- Terminal-based program that uses Google's Speech API and one other third party API to transcribe audio files and punctuate the transcription with approximately 90% accuracy.

Extracurriculars

Tufts TURBO Medford, MA

President *September 2017 - Present*

- Plan and host annual breakdancing competition (Turbomania) for over 300 dancers from the Greater Boston Area.