

# Leland Wu

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## EDUCATION

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### 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

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

## EXPERIENCE

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### 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 utilizing 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

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### 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

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### Tufts TURBO

Medford, MA

*President*

*September 2017 - Present*

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