Leland Wu

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EDUCATION

Tufts University Medford, MA
B.S in Computer Science; GPA: 3.75/4.0 *Expected May 2020*

Relevant Coursework: Data Structures, Machine Structure and Assembly Language Programming, Web Programming, Cybersecurity, Algorithms, Computational Theory, Concurrency, Programming Languages

SKILLS

- **Languages**: Python, Java, C++, C, CSS, HTML, Javascript, LaTeX, Rust
- **Technologies**: Flask, Git, Elasticsearch, AWS, Maven

EXPERIENCE

Salesforce Burlington, MA
Software Engineering Intern *May 2019 - August 2019*

- Initiated the integration of a distributed ingestion pipeline into existing infrastructure by building and deploying a client library that allows any newly introduced microservices to interact with DynamoDB and S3.
- Introduced and documented new mappings from error codes and their definitions for every endpoint in existing Search APIs in order to enhance troubleshooting ability
- Developed and presented the winning project of the 2019 CommerceCloud/Retail.net/CommunityCloud cross-organization hackathon to company VPs.

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 event metrics from over 45,000 deployed devices from Elasticsearch.
- Streamlined device monitoring workflow by using Logback to capture 200+ device events in the entire codebase and interface them with a single handler.
- Designed, developed, and presented the addition of new printer receipt language options, and increasing total number of available languages by 50%.
- Increased total test coverage of the Android application's core authentication service by refactoring its original architecture and testing changes using Mockito and JUnit.

Tufts University Medford, MA
Teaching Assistant *January 2017 - September 2018*

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

PERSONAL PROJECTS

Collaborative Drawing Website · Javascript/Python *November 2018 - December 2018*

- Web application that allows users to draw in the same browser.
- Features include replay button, and the opportunity to join different rooms.

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

- Implementation of an emulator for the Chip-8 virtual machine, complete with 16 8-bit registers, all 35 opcodes, and graphics.
- Playable games include Pong, Space Invaders, and Tetris.
- Keyboard and graphics built with SDL2.

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.