

# OLIVER LI

**Skills:** JavaScript, Scala, Ruby, Jekyll, JAM Stack, C, Git, Linux, Bash,  $\LaTeX$

**Interests:** Operating Systems, Flight Simulation, Amateur Radio, Computing History

**Languages:** English (native), Chinese (near-native)

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## Education

**B.S., Electrical & Computer Engineering** - Carnegie Mellon University

Aug 2019 – Dec 2022

- Coursework completed include 18-213 (Computer Systems), 15-150 (Functional Programming), and their prerequisites. Achieved an overall QPA of 3.90 out of 4.00
- Early graduation expected in May or December 2022 due to AP credits and rigorous courseloads

## Experience

**Stripe** - Software Engineer Intern, U.S. Remote

May 2020 – Aug 2020

- Successfully implemented a user facing tax data export API despite numerous scaling challenges
- Built a tax data computation pipeline using Scala, Spark, and Airflow as part of the Tax Reporting team
- Consistently pushed for the most user-friendly implementation, performed high quality and rigorous code reviews, and achieved all internship project targets including stretch goals

**Open Government Products** - Software Engineer Intern, Singapore

Feb 2019 – Aug 2019

- Worked closely with full-time engineers on products for the public good, such as Isomer and go.gov.sg
- Engaged in rapid prototyping and testing of new features, and initiated code rewrites where necessary, improving the usability and reliability of existing products

**Singapore Army** - System Administrator, Singapore

Feb 2017 - Feb 2019

- Oversaw and administrated all aspects of a computer network used by the army for high security events such as the 2018 Trump-Kim Summit
- Exceeded expectations by constantly improving workflows and tackling numerous technical challenges. Promoted to the rank of Corporal First Class in recognition

## Selected Projects

**Autolab** - Ruby on Rails, JavaScript, Python

Sep 2019 – Present

- Autolab is an autograder for Computer Science assignments used at CMU and other colleges
- Implemented features such as code annotations and a more user-friendly grading interface
- Deployed and tested a migration from Rails 4 to Rails 5

**Isomer** - Jekyll, JAM Stack, Web Infrastructure

Feb 2019 – Aug 2019

- Isomer is a Jekyll theme designed to allow Singaporean government agencies to rapidly launch modern, well designed, and accessible websites
- Initiated an overhaul of the codebase, eliminating technical debt and reducing workload on end users
- Provided support for end users, and oversaw the smooth operation of all 20+ Isomer sites

**go.gov.sg** - node.js, React

Feb 2019 – Apr 2019

- go.gov.sg is a link shortener for Singaporean government officials to generate short URLs on the "gov.sg" domain that can be trusted by the public
- Created several API endpoints for statistics generation and URL management as part of a team of 4