

# EUGENE LU

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## LINKS

 [yenfu1.github.io](https://github.com/yenfu1)

 [eugene-lu1](https://www.linkedin.com/in/eugene-lu1)

 [yenfu1](https://twitter.com/yenfu1)

## SKILLS

### Languages

Golang

Python

JavaScript, TypeScript

C++, C

SQL

### Tech Stack

React, React Native

Redux

Flask

Django

### Databases

MySQL

PostgreSQL

SQLite

MongoDB

Redis

### Additional Skills

Source Control (Git)

GitHub Actions

Heroku

Vagrant

Docker

AWS

## EDUCATION

University of Waterloo

Sep 2017 - Present

Candidate for Bachelor of  
Computer Engineering

## RELEVANT COURSES

**ECE250** - Data Structures and  
Algorithms

**ECE252** - Systems  
Programming and  
Concurrency

**ECE350** - Real-Time Operating  
Systems

**ECE351** - Compilers

**ECE457A** - Cooperative and  
Adaptive Algorithms

## EXPERIENCE

Software Developer (Mobile) – Alida

Toronto, ON | Jan 2022 - Apr 2022 | Sep 2020 - Aug 2021

- Designed a detailed workflow for integrating SSO into a mobile app and built the relevant API endpoints using Go
- Improved testing infrastructure by refactoring backend code to be unit-testable and creating a build pipeline on GitHub Actions
- Optimized performance of frequently called API endpoints from 10s to 2s by caching data in Redis
- Improved quality of frontend codebase by introducing Redux and creating reusable components

Web Application Developer – University of Waterloo

Waterloo, ON | Jan 2020 - Apr 2020

- Designed web views where users could query for professors, courses, and classrooms with various filters
- Reduced load times on certain pages from 30s to 5s by optimizing database queries and paginating the results
- Automated deployment of a web app using bash scripts and Vagrant

Teaching Assistant – University of Waterloo

Waterloo, ON | Sep 2018 - Dec 2018

- Automated testing and grading of student code using Python scripts
- Improved students' understanding of core programming concepts by holding office hours and hosting help sessions

## PROJECTS

### sc2Ladder

[sc2ladder.herokuapp.com](https://sc2ladder.herokuapp.com) | Python, Django, PostgreSQL

- Created a search engine and database for StarCraft II players which could track their performance over time
- Implemented most of the backend, including the data and business logic, and a scheduled task which called external APIs to collect player data

### aniMusic

[GitHub](#) | React, Express, MongoDB

- Multiplayer trivia game web app featuring a leaderboard and a text box for guesses with autocomplete functionality

### chatbot

Python, Discord.py, SQLite

- Implemented a variable-length paragraph generator using Markov chains and user message history