EUGENE LU

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LINKS

🌐 **yenfu1.github.io**
in **eugene-lu1**
💻 **yenfu1**

SKILLS

Languages
Golang
Python
JavaScript, TypeScript
C++, C
SQL
Tech Stack
React
React Native
Flask
Django
Databases
PostgreSQL
MySQL
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
- Created a testing infrastructure from scratch on GitHub Actions which reduced test flakiness and improved test coverage
- Researched and designed a detailed workflow for integrating SSO into a mobile app and implemented the relevant API endpoints
- Optimized performance of frequently called API endpoints from 10s to 2s by caching data in Redis
- Improved quality of frontend code by introducing redux and creating reusable components

Web Application Developer – University of Waterloo
Waterloo, ON | Jan 2020 - Apr 2020
- Designed web view 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
- Wrote scripts to automate local deployment of a web app

Teaching Assistant – University of Waterloo
Waterloo, ON | Sep 2018 - Dec 2018
- Wrote Python scripts which automatically tested and graded student code submissions
- Automated repetitive tasks using SQL scripts

PROJECTS

sc2Ladder
sc2ladder.herokuapp.com | Python, Django, PostgreSQL
- Created a search engine and database for StarCraft II players which can track their performance over time
- Implemented the data and business logic, including 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