




Eugene Lu

Computer Engineer

778-885-5228

e6lu@uwaterloo.ca

 [linkedin.com/in/eugene-lu1](https://www.linkedin.com/in/eugene-lu1)
 github.com/yenfu1
 yenfu1.github.io

Qualifications

- **Languages:** JavaScript, HTML, CSS, C#, Python, C++, C, SQL, Swift
- **Frameworks:** React, Django, Flask
- **Databases:** PostgreSQL, Mongo
- **Additional Skills:** Git, Jira, Agile, TDD

Experience

Instructor May 2019 to
RoboKids Aug 2019

- Provided tutoring for Python and C++
- Planned and ran programming and robotics summer camps independently
- Designed the curriculum for teaching students how to create Minecraft mods

Teaching Assistant Sep 2018 to
University of Waterloo Dec 2018

- Wrote python scripts to test and grade student code submissions
- Wrote SQL scripts to keep the course database updated
- Developed a keen attention to detail by marking exams and helping students debug their code

QA Developer – Mobile Jan 2018 to
Pelmorex Media May 2018

- Pair-programmed with developers to implement features for “The Weather Network” iPhone app
- Worked under the Agile methodology
- Wrote automated UI tests in Swift and performed manual testing

Projects

AniMusic github.com/YenFu1/AniMusic/

- Multiplayer “guess-the-song” game
- Built using Node.js, React, Express, socket.io, and MongoDB
- Independent project built from scratch

sc2Ladder sc2ladder.herokuapp.com/

- Search engine, database, and API endpoint for StarCraft II player data
- Built using Python and Django, uses a PostgreSQL database
- Designed the frontend and API endpoint
- Implemented functionality to make API calls, parse responses, and update the database

Grid-RTS github.com/YTP-Studios/grid-rts/

- Real-time strategy browser game
- Node.js web app using an Express server and MongoDB database
- Graphics rendered using Phaser.js
- Designed and coded game mechanics and units

YenFuBot

- Discord bot using Node.js
- Provides moderation tools, StarCraft II player querying (using sc2ladder API), and other miscellaneous features
- Developed from scratch independently

Education

Candidate for Bachelor of Computer Engineering Sep 2017 to
University of Waterloo Present

Relevant Courses:

- Fundamentals of Programming, C++
- Data Structures and Algorithms, C++
- Systems Programming and Concurrency, C++

Hobbies and Interests

- **StarCraft II – Grandmaster League**
- **Tespa Team Brawl – semi-finalist**