

AMY (YUQI) LIANG

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TECHNICAL SKILLS

- **Languages:** Python, Java / Groovy, C, JavaScript / TypeScript, HTML, CSS, Lua, MIPS Assembly
- **Frameworks / Databases:** Angular, Express.js, MySQL / SQLite / PostgreSQL, MongoDB, Firebase Realtime
- **Environments / Tools:** Git, Node.js, Docker, Android Studio, Jira, Wireshark, Postman, Bash / Unix / Linux
- **Design / Documentation:** Illustrator, Photoshop, Microsoft Office, Confluence

EDUCATION

Honours Bachelor of Science, Computer Science Co-op

Sep 2020 – Present

University of Toronto, Toronto, ON

- **Awards:** University of Toronto Entrance Scholarship, Dean's List 2021
- **Culminative GPA:** 3.2/4.0
- **Related Courses:** Software Tools and Systems Programming – C and Unix, Algorithm Design and Analysis – linear programming and non-linear optimization, Operating Systems, Computer and Network Security, Programming on the Web (completed and received TAsip)

WORK EXPERIENCE

Course Teaching Assistant

Sep 2023 – Dec 2023

University of Toronto, Toronto, ON

- Participated in meetings with other teaching assistants and the professor to discuss upcoming student tasks and how to make the course better, receiving the highest evaluation at the end of the course
- Aided students with labs and assignments during practical and office hours, helping over half the students assigned to my timeslot complete their tasks
- Graded over 90+ students' labs and assignments, as well as gave feedback on project milestones and the final product within given deadlines

RBC Developer Co-op

Sep 2022 – Dec 2022

Toronto, ON

- Wrote and debugged script and regex filter defects within ServiceNow in **JavaScript**, decreasing chance of error and increasing platform efficiency
- Developed a mobile version of an internal application called MyMarketplace with a cross-functional agile team, increasing employee travel productivity and improving accessibility to tasks and requests
- Presented Now Mobile application to RBC executives and internal employees, receiving overwhelmingly positive feedback on project

Innovapost DevOps Engineer Co-op

Jan 2022 – April 2022

Toronto, ON

- Wrote **Groovy** scripts for **Jira** and Confluence ScriptRunner and for command line using their REST API, automating monthly manual processes and increasing work efficiency
- Administered Jira and Confluence and completed service requests for Canada Post employees in a hybrid Scrum-Kanban team, increasing productivity and improving organization of projects and tasks
- Created monthly KPI reports using Confluence, Jira filters and PULSE event search, enhancing month-end review and keeping a systematic record of team activities

PROJECTS

Langchain Fork

- Forked an open-source **Python** project and solved an issue by creating a new Langchain agent for **MongoDB** queries using MongoEngine, and pull request was merged into a main repository branch by maintainer

Limeade Web Application

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- Built an application for a social event platform that allows users to have different levels of accounts based on payment level, and event creation and joining, as well as additional features such as chat and advertising
- Developed the frontend of the application using **Angular** components with **TypeScript** and complex **CSS** styling, including flex, animations and transitions
- Designed a backend with **Node.js**, **Express.js**, and **MongoDB** that implements a search feature based on Jaro-Winkler distance

AR Audio Visualizer

- Developed a semi-single page application that allows users to log in and create AR visualizations for their audio using Three.js, recorded through microphone or through uploading files
- Designed the frontend with **Angular** and **Bootstrap**, and implemented a RESTful backend using **Node.js**, **Express.js** and **PostgreSQL**
- Deployed using an Ubuntu VM using **Docker** with Nginx as reverse proxy and a certificate from Let's Encrypt

Appointment Booking Application

- Developed a mobile Android application using **Java**, **XML** and **Firebase Realtime** database to book doctors' appointments, create accounts for users and check schedules
- Debugged and performed unit and interface testing using **JUnit** and **Espresso** on the application, creating seamless and safe-to-use code
- Using Object-Oriented Programming (OOP) principles and the Model-View-Presenter design pattern, group members created modular and clean code

Graffiti Social Media Network

- Coded a social media network using **C**, succeeding in implementing the features to create users, follow others, get suggested friends and more