

GIGI CHEANG

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EDUCATION

Honours Bachelor of Science - Computer Science (Co-op)

University of Toronto

Expected: Aug. 2025

Toronto, ON

EXPERIENCE

Software Engineering Intern

Ontario Power Generation

Jan. 2024 – Aug. 2024

Whitby, ON

- Responsible for full stack **end-to-end** development of web applications and features, contributing to critical projects that enhance operational efficiency and innovation.
- Developed single-page applications using **Angular**, facilitating an intuitive user experience.
- Implemented **ASP.NET Web APIs** using Entity Framework in **C#** with structured and reliable responses.
- Authored and optimized **SQL** queries and stored procedures, improving overall database performance.
- Developed **PowerShell** scripts to automate repetitive and scheduled tasks, reducing manual workload and resulting in time savings and increased productivity.
- Demonstrated **strong communication skills** leading meetings with application users, gathering requirements, and meticulous documentation of project specifications and progress.

Full Stack Developer

Verta Labs

Aug. 2023 – Dec. 2023

Remote

- Developed reusable and responsive **React** components based on client input and Figma design document, streamlining UX/UI development process.
- Created a mobile-friendly web app with **responsive design** using **Tailwind CSS**.
- Developed and optimized **FastAPI Python** backend endpoints, proficient in crafting efficient **SQL** queries for seamless interaction with SQL Server.

PROJECTS

Resume Rumble (Hack the Valley '23) | Next.js, React, Tailwind CSS, TypeScript, MySQL, AWS

- Created a resume management web application for software engineers looking to improve their resume by leveraging generative AI, using the **OpenAI API** and **Next.js**.
- Created an animated and responsive front-end using **React**, **Tailwind CSS**, and **Typescript**.
- Stored resume and lobby records in a PlanetScale **MySQL** database with user images hosted in **AWS S3**.

Tabs, a household management mobile app | TypeScript, MERN stack: MongoDB, ExpressJS, React Native, NodeJS

- Developed a mobile app with features targeted towards individuals in shared living situations.
- Wrote backend **GraphQL** schemas and resolvers to implement inventory system functionality.
- Tested thoroughly using **Docker**, Apollo Sandbox and mobile emulators.

Venue bookings Android app | Java, Firebase, Android Studio

- Developed an Android mobile application for venue owners and event attendees to plan and schedule event information and attendance.
- Followed MVVM (Model-View-Viewmodel) design pattern and created XML layouts for reusable fragments in **Android Studio**.
- Designed in accordance with **Android app architecture** and Google's Material Design.

Ride-share web app (backend) | Java, PostgreSQL, MongoDB, Neo4j

- Implemented a **REST API** routing to a variety of loosely coupled APIs and their respective databases, following a **microservices architecture**.
- Set up endpoints for each API and wrote database queries for data access object classes.
- Created a comprehensive suite of **JUnit** tests for response statuses and correctness.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, HTML/CSS, SQL, Java, C#, Python, C

Frameworks and Tools: Angular, React, Next.js, Tailwind CSS, Node.js, Express, Flask, MongoDB, Firebase

Dev Tools: Linux, Git, PowerShell, Bash, Docker, Azure