Qiyuan Peng

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EDUCATION

University Of Toronto   Sept 2022 - April 2025
Bachelor of Science in Computer Science and Economics
Relevant Coursework:
Software Design, Discrete Math, Advanced Data Structures and Algorithms

SKILLS

Languages: C, C++, R, Java, Python, JavaScript
Technologies: PostgreSQL, SQL, Next.js, Flask, AWS, Unix Shell, OpenAI

PROJECTS

ProjectDBG | *Python, MySQL, Discord API, Git, Unix Shell, Pycharm*
- Designed and developed an online RPG game, "ProjectDBG" using the **Discord API**.
- Implemented core features such as character movement and inventory system using **Python** and **MySQL**.
- The database is hosted on a local machine, setup through using **UNIX** commands, and runs on **MySQL**.
- Conducted extensive playtesting and debugging, ensuring the functionality of the backend.

DebateMe | *JavaScript, Python, PostgreSQL, OpenAI, Flask, AWS*
- Designed a website that refines your debating skills And Communication Skills with **OpenAI**
- Designed, implemented, and fine-tuned the front-end using **Javascript**
- Felped develop the backend using technologies: **PostgreSQL**, **Flask** and **OpenAI**.
- Collaborated closely with a team of three team members to collaborate on the project.

UNICEF Website | *JavaScript, HTML, CSS, SQL, AWS*
- Designed a website with responsive and intuitive **UI** using **JavaScript** and **SQL** for the UNICEF club.
- The UNICEF Club website is visited regularly by **200+** members.
- Used **React** for handling form submissions, which enhances the user experience.
- Hosted the backend using **AWS**, ported code over, and maintained it for 2 years.

EXPERIENCE AND COMPETITION

Software Developer Kaboo Financial   Mar 2024 – Current
- Designed and implemented an efficient **SQL** database, ensuring fast data storage and retrieval.
- Achieved **95%-100%** code coverage through automated testing of SQL database functionalities.
- Enhanced the codebase efficiency by **15%** by optimizing existing algorithms and implementing new ones.
- Collaborated with different teams to refine project requirements, ensuring alignment with business needs.
- Developed and maintained the front end using **Next.js**, improving user experience and interface responsiveness.

University of Waterloo Computing Competition   Feb 2021 - Mar 2021
- Qualified by placing in the top **10%** out of over 8,000 other competitors in the Canadian Computing Competition.
- Applied algorithms such as Dijkstra, BFS/DFS, Kruskal's MST and data structures such as Arrays, Queues, and Trees to solve problems.

Private Programming Tutor   Jun 2020 - Sep 2023
- Started a private tutoring business that teaches **Python** and **Java** to **30+** students.
- Customized each student's learning experiences, the topics I cover range from simple array questions to advanced topics such as data structures, recursion, and dynamic programming.
- Offered regular updates on their child's progress and achievements throughout the month.