Anthony Qin

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US Permanent Resident

EDUCATION

University of Toronto   Toronto, Canada
Bachelor of Science, Specialist Program in Computer Science Co-op   2021 - 2026

EXPERIENCE

HOOPP (Healthcare of Ontario Pension Plan)   May 2025 - Present
Cloud Engineer Co-op

- **Developed cloud automation solutions** across **AWS** and **Azure** to streamline infrastructure management, including provisioning, configuration, and large-scale migrations, automating processes for nearly **400 virtual machines**.
- Engineered **monitoring** and **observability** solutions for **100+ cloud applications**, improving error alert accuracy by over 90% through automated health checks and custom monitoring workflows.
- Implemented enterprise security enhancements including Transparent Data Encryption (TDE) on production SQL servers, BitLocker troubleshooting, and security audits for DaaS virtual machines.

Themis AI   May 2025 - September 2025
Machine Learning Intern

- Engineered a full-stack **interactive image segmentation and classification interface** for a data-labeling platform powered by CAPSA (uncertainty quantification) and ActiveLab (active learning).
- Implemented API integrations to fetch uncertain images identified by ActiveLab for annotation and return labeled data for continuous model retraining.
- Enhanced the annotation workflow by improving usability, responsiveness, and efficient data transfer between the frontend and backend.

University of Toronto / Diamond Schmitt   January 2025 - May 2025
Undergraduate Researcher – Procedural Generation Research Project

- Created a **constraint-based** floor plan generator using the Hierarchical Wave Function Collapse algorithm; presentation to **Diamond Schmitt Architects** received enthusiastic feedback and led to potential collaboration opportunities.

Autodesk Research   May 2024 - August 2024
Software Engineer, HCI & AI Intern

- Developed **Story Visualizer**, a tool leveraging LLMs to help authors visualize and analyze stories through automated story element extraction, infinite canvas visualizations, and AI-generated images.
- Designed and delivered a fully functional web-based prototype that leveraged AI to realize Research Scientists' vision, enabling storytellers to manage narrative elements and visually preview their work.
- Maintained flexible software architecture that allowed for rapid prototyping and adaptation to evolving project requirements
- **Independently researched, designed, and implemented the end-to-end system** (Next.js, LangChain, React Flow), working with minimal oversight and full ownership of technical decisions.

PROJECTS

Mirror's Memento - Unity Game

- Collaborated with a 12-person team to develop a Unity-Based 3D puzzle game featuring 15 unique levels.
- Designed and implemented key systems, including dynamic controller support, grid movement, and Ai driven hints
- Assisted with the integration of assets and animations, resolving merge conflicts to maintain continuity.
- Published Open beta on itch.io, with ongoing updates based on player feedback.

MagnifyAccess, Full-Stack Web App

- Collaborated in a team to develop a full-stack web application for Magnify Access, enabling disabled individuals to apply for disability grants, with a strong focus on accessibility.
- Set up MongoDB object tables and built features to allow grant creators to manage and add new grants on the platform.
- Created and integrated features on both front-end and back-end to enable grant creators to easily add and manage new grants on the platform, using React.js for the front-end and Express.js for the back-end.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, C, C#, Python, PowerShell, Java, Haskell, Racket, GraphQL, Lua, Scala
Frameworks & Libraries: Next.js, React.js, React Flow, D3.js, Tailwind CSS, Material UI, NumPy, Pandas, Express.js, Spring API
Tools & Platforms: Git, Docker, Linux, Android Studio, MongoDB, Firebase, SQL, PostgreSQL, Jenkins, Unity, Godot
Software Development: Azure, SDLC, OOP, Functional Programming, Design Patterns, Agile & Scrum, Unit Testing, Integration Testing, End-to-End Testing, TDD, CI/CD