Anthony qin

anthony.qin@mail.utoronto.ca ◇ anthonyqin.me

Work Experience

Autodesk Research   May - August 2024

Software Engineer, HCI & AI Intern

- Developed a web-based prototype using Next.js, LangChain, and React Flow to help authors visualize and analyze their stories by extracting narrative elements through LLMs.
- Implemented features that automated the extraction of story elements from inputted text using large language models, enhancing the prototype's ability to generate digital storyboards.
- Collaborated closely with the research manager to iteratively refine the project direction and feature set, focusing on providing authors with innovative perspectives on their stories.
- Designed and built a flexible software architecture that allowed for rapid prototyping and adaptation to changing project requirements and directions.

Manulife   January - April 2023

Full Stack Engineer Co-op

- Built a full-stack internal dashboard application from scratch using Spring Boot and React.js, significantly improving the collaboration between different departments.
- Played a pivotal role in ensuring the seamless operation of existing projects by proficiently configuring servers using Putty, contributing to the overall reliability and performance of the applications.
- Contributed to the optimization of team workflows by actively participating in the development of automation scripts using PowerShell and C. The implementation of these scripts resulted in a substantial increase in team efficiency.

Technical Skills

Programming Languages

- Java, JavaScript, TypeScript, C, C#, Python, Haskell, Racket, GraphQL

Frameworks & Libraries

- Next.js, React.js, React Flow, D3.js, Tailwind CSS, Material UI, numPy, Pandas, GraphQL, Express.js, Spring API

Tools & Platforms

- Docker, Linux, Android Studio, Git, MongoDB, Firebase, SQL, PostgreSQL, Unity, Godot

Education

University of Toronto   Toronto, Canada

Bachlor of Science, Specialist Program in Computer Science Co-op   2021 - 2025

Relevant Projects

PintOS Operating System

- Implemented many key parts of the PintOS operating system in C, including Thread Scheduling, System Calls, Virtual Memory Management, and the file system
- Utilized GDB to efficiently test and debug PintOs

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.

Awards

Hack the Valley 7 Winner

- Developed IntelliVerse, a full stack app using React Native, MongoDB, and GraphQL, offering emotional insight into text conversations with AI driving automatic sentiment analysis. Winning awards in the categories: Best Discovery Hack and Most Creative Use of GitHub