

# ANEEQ HASSAN

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## Education

### University of Toronto

Honours Bachelor of Science in Computer Science

September 2019 – April 2025

- **Relevant Coursework:** Software Engineering, Computer Architecture, Engineering Large Software Systems, Data Structures, Algorithms, Linear Algebra, Statistics, Software Design, Network Programming, Web Development

## Experience

### Dayforce

AI Software Engineer

September 2025 – Present

Toronto, ON

- Built QueryGPT, an internal chatbot, leveraging **LangChain**, **RAG**, and **ChromaDB** to support **natural-language SQL generation** across 50K+ tables
- Developed a **Playwright MCP agent** that translates natural-language instructions into automated browser workflows, allowing teams to validate client configuration logic without manual test scripting
- Implemented server-side request validation using **Pydantic** models in **FastAPI**, enforcing strict schema checks and preventing malformed or malicious payloads from reaching internal services

### Magnet Forensics

January 2025 – April 2025

Software Engineer Intern

Toronto, ON

- Developed Fastrak using C# (.NET stack) to offload data acquisition from GrayKey to standard PCs, reducing GrayKey usage per phone by **85%**, enabling simultaneous extractions, and significantly improving the efficiency of a **\$60k** tool
- Implemented a modular acquisition workflow using **dependency injection**, improving testability and allowing new device-handler modules to be added with minimal code changes
- Built a **factory-pattern** device selector to automatically choose the correct acquisition workflow per phone model

### Annaly

February 2024 – August 2024

Software Engineer Intern

Toronto, ON

- Designed and implemented an **ETL Notifier System** using C#, .NET, VCron, and SQL Server, monitoring data arrivals from **over 30 vendors** and reducing incident response time by **95%**
- Migrated **24** margin calculation applications from Microsoft Interop to ClosedXML, cutting execution time by **50%** and reducing server **CPU usage by 40%**
- Built an email logging system using **Mailgun API** and SQL Server that tracks **10,000+** monthly communications, reducing audit lookup time by **75%**
- Created an automated SQL report that emails weekly system exceptions to teams, replacing daily manual checks and saving **40** hours monthly.

### Enbridge

June 2023 – September 2023

Data Analyst Intern

Toronto, ON

- Developed an internal project management tool using Microsoft Power Apps, enabling over **10 teammates** to seamlessly report and track progress updates, which resulted in a **75%** increase in inter-departmental communication efficiency.

### Koho

May 2022 – May 2023

Software Engineer Intern

Toronto, ON

- Engineered **integration tests** using **Go** that validates user registration flows, integrating with **Jenkins** pipeline to catch bugs before deployment and reducing QA time by **45%**
- Implemented an **internal tool** into the **Jenkins** pipeline using **Go** and **SQL** for the Save Accounts feature, implementing automated testing scripts that accelerated development cycles by **45%**.
- Integrated **Google Pay API** into Koho's mobile app, driving **40%** adoption among Android users and processing **\$2M** in transactions within first quarter of launch

### University of Toronto

January 2022 – May 2025

Teaching Assistant

Mississauga, ON

- Instructed over **2,000** students across **6** semesters in **data structures**, **algorithms**, OOP, and complexity using **Python** in an active learning environment
- Led weekly labs for **5** sections, improving average grades by **47%** by creating lesson outlines and aiding students

## Technical Skills

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

**Tools:** Cursor, Co-Pilot, Git, Linux, Docker, Kubernetes, Firebase, Postman, Datadog, Jira, Redis, MongoDB, SQL Server

**Frameworks:** React, Node.js, Express.js, Angular, .NET, SASS, JQuery, FastAPI, TailwindCSS, Django, Next.js

**Concepts:** Software Engineering, Database Design, Cloud, Scrum/Agile, Machine Learning, Web Development