Aneeq Hassan

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Education

University of Toronto | **September 2019 – May 2025**
Honours Bachelor of Science in Computer Science

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

Experience

Magnet Forensics | **January 2025 – April 2025**
Software Developer 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

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%**

Enbridge | **June 2023 – September 2023**
Data Analyst Intern | *Toronto, ON*

- Developed an internal tool in 1 sprint 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 Financial | **May 2022 – May 2023**
Software Developer 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%**
- 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
- Implemented **NgRx** state management across mobile app, reducing API calls by **60%** and cutting load times by **30%**

University of Toronto | **January 2022 – Present**
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

Projects

MailflowAI | *Python, GCP, Cloud Pub/Sub, OpenAI* | **December 2024 - Present**

- Developed an AI-powered 24/7 customer service automation tool for e-commerce businesses which reduces monthly costs by **$14K USD** and reduces response times from hours to minutes
- Built a customer inquiry processing system leveraging **Cloud Pub/Sub** and **Gmail API**, automating data retrieval and reducing response times by **90%**
- Integrated Shopify GraphQL Admin API to fetch order-related data, feeding it to the **AI Agent** which generates context-driven and professional responses aligning with business requirements

IoT Data Monitoring System | *TypeScript, TimescaleDB, Grafana* | **November 2024**

- Developed an IoT data monitoring system using **TimescaleDB** and **TypeScript**, that generates temperature and humidity data from multiple virtual sensors and efficiently managing datasets exceeding **1 million records**
- Optimized data retrieval by constructing continuous aggregates, resulting in **80% faster queries**. Leveraged **Grafana** to visualize metrics and aggregate results

Technical Skills

Languages: Python, Java, C, C#, C++, HTML/CSS, JavaScript, TypeScript, SQL
Tools: Git, Linux, Docker, Kubernetes, Firebase, Postman, Datadog, Jira, Redis, MongoDB, SQL Server
Frameworks: React, Node.js, Express.js, Angular, .NET, SASS, JQuery, FastAPI, TailwindCSS, Bootstrap
Concepts: Software Engineering, Database Design, Cloud, Scrum/Agile, Machine Learning, Web Development