

Ayaan Azfar

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EDUCATION

UNIVERSITY OF GUELPH

Guelph, ON

Bachelor of Computing, Computer Science (Co-op); Minor in Project Management

September 2024 - Present

Honours & Awards: Academic Entrance Scholarship (University of Guelph), Dean's List (**3.7 GPA**), ICT SHSM Graduate, High School Honour Roll (Grades 9–12, **94%** average)

TECHNICAL SKILLS

Certifications: Microsoft Azure Fundamentals (**AZ-900**), Microsoft AI Fundamentals (**AI-900**), AWS Certified Cloud Practitioner (**CLF-C02**), Microsoft Security Fundamentals (**SC-900**), CompTIA Security+ (**SY0-701**)

Programming Languages: Swift, C#, C, **Python**, R, SQL, C++, HTML/CSS, JavaScript, **Java**, Bash

Frameworks & Tools: SAP, Power BI, **Azure/AWS**, Git/GitHub, .NET, Excel, **Linux**, Docker, **Node.js**, React

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER (IOS, CLOUD, SECURITY), INTERN

Toronto, ON

Apple x OurWaveHub

June 2022 - September 2022

- Designed and developed a fully functional **iOS** application focused on helping users maintain a healthy lifestyle, integrating features such as personalized goal tracking, push notifications and HealthKit **APIs**.
- Engineered secure data** storage and real-time sync with **Core Data** and **CloudKit**, optimizing memory use and async tasks to cut launch time by **20%** and achieve **95%** crash-free sessions.
- Gained advanced proficiency in **Swift programming**, **Xcode** IDE and **UIKit/SwiftUI** frameworks, applying **user experience (UX)** and interaction design principles to build an intuitive and engaging interface.
- Collaborated with a cross-functional team of **6** developers and designers providing regular progress updates to the project coordinator and ensuring alignment with sprint goals.
- Conducted usability testing with **30+** users and launched beta versions via **TestFlight**, analyzing feedback, crash logs and bug reports to improve navigation, accessibility and stability increasing user satisfaction by **25%**.

TOWN OF OAKVILLE

Oakville, ON

Environmental Impact Analyst

April 2024 - August 2025

- Evaluated the environmental and community impact of waste management operations across **30+** municipal parks, ensuring alignment with sustainability initiatives and public standards.
- Utilized **Excel** to automate repetitive tasks and then presented the analyzed results through interactive **Power BI** dashboards to senior management.
- Tracked and documented compliance metrics for public environmental safety protocols, contributing to analytics driven decision making and long-term infrastructure planning.

PROJECTS

AI-POWERED TUMOR DETECTION BOT

[AI-TUMOR-DETECTION](#)

- Developed an **AI-driven** image classification model in **Azure Machine Learning Studio** using **PyTorch** and **TensorFlow** on MRI and CT tumor datasets to detect and classify tumors.
- Leveraged **Azure ML Datasets**, **Blob Storage** and **MLTable** pipelines for efficient data preprocessing, implementing multi-class labeling and data augmentation to improve model durability and accuracy.
- Improved model performance by **30%** through optimized data pipelines balanced labeling and advanced augmentation approach.

SOLSYNC

[SOLANA-TRADING-BOT](#)

- Developed a **Python**-based automated trading bot on the Solana blockchain that mirrors the transactions of a selected trader for efficient **copy-trading**.
- Optimized real-time transaction tracking and execution, reducing latency by **30%** while ensuring seamless trade replication and preventing duplicate or failed trades.
- Leveraged Solana **Web3.py** and **RPC APIs** to enable secure blockchain interactions and decentralized execution.

ODYSSEY HACKATHON ORGANIZER

Brampton, ON

- Coordinated a 3-day event for **350** participants, managing logistics, planning, team coordination and **\$15K** in prize distribution.
- Collaborated with sponsors to provide resources, workshops and networking opportunities to the participants.