AALIYAH CHANG

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Computer Engineering student from Queen's University with hands-on experience in Python development, data processing, and software engineering. Passionate about building high-impact AI and visualization technologies, with experience in research, software development, and data-driven problem-solving. Excels in collaborative environments and technical problem-solving to support software solutions.

EDUCATION

Bachelor of Applied Science in Computer Engineering | Smith Engineering at Queen's University
September 2020 – April 2025

- Co-President – National Society of Black Engineers
- Vice-Lead – Google Developer Student Club
- Relevant Courses: Machine Learning, Deep Learning, Artificial Intelligence, Computer Vision, Programming Language Processors, Advanced Data Analytics, Software Performance Analysis

RELEVANT EXPERIENCE

Data Analytics Intern | Avanade | Toronto, ON

May 2023 – August 2023

- Explored **Power BI integration and analytics automation**, preparing documentation for a proposed project before its cancellation.
- **Researched CI/CD best practices and Azure DevOps workflows** to support potential process automation improvements.
- **Labelled 5000+ data points** using **Python**, improving AI model accuracy for a **global logistics and international shipping startup.**

Software Development Intern | Avanade | Toronto, ON

May 2022 – August 2022

- Designed an **inventory management application** for a Fortune 500 petrol company in 10 weeks, leveraging **Microsoft Power Platform and Azure.**
- Integrated the application with **Dynamics365,** automating data workflows and **significantly reducing manual data entry.**
- **Participated in client meetings**, presenting technical updates on application development, ensuring alignment with stakeholder needs.

Teaching Assistant | Smith Engineering at Queen's University | Kingston, ON

September 2023 – December 2024

- **Guided 100+ students** through data structures and algorithms concepts**,** including **linked lists, trees, graphs, recursion and sorting algorithms.**
- Provided detailed feedback on 200+ lab assignments, helping students improve their understanding of **time complexity (Big-O), dynamic memory allocation and code optimization.**
- Assisted in debugging and troubleshooting **C++ implementations**, reinforcing best practices in algorithm design.

TECHNICAL SKILLS

- Python
- SQL
- C++
- Git
- Data Structures and Algorithms
- Agile Methodologies
- Jira
- Confluence
- Object Oriented Programming (OOP)
- Software Performance Analysis