

Aagam Shah

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EDUCATION

University of Waterloo

Bachelor of Computer Science

Waterloo, ON

Expected Graduation: May 2026

Cumulative GPA : 3.90

Relevant Coursework: Object Oriented Programming, Data Structures and Algorithms, Application Development

EXPERIENCE

Software Developer Intern

Geotab

Jan 2025 – Present

Toronto, ON

Software Developer Intern

Moody's

May 2024 – Aug 2024

Toronto, ON

- Reduced runtime of reserve component calculations by **7%** by integrating **SQL queries** into a newly engineered **relational database** to automate the generation of several Enum lists
- Refactored the reserve component storage code into a separate class which **reduced 1200 lines** overall and **decreased compile time by 12%**
- Incorporated **error walk-through** messages into Moody's proprietary AXIS feature codes allowing users to be guided in real-time error resolution

Business Development Intern

Safeline Group of Companies

May 2023 – Sept 2023

Concord, ON

- Developed a **Python** script with automation capabilities to analyze and compare **over 1 million words** across several legislations, pinpointing critical variances to update
- Engineered an automated database using **VBA**, cataloging all company files on hand and auto updating new files through a user friendly **interface**
- Designed an integrated internal company website using **Microsoft SharePoint**, centralizing all essential resources within a unified digital domain for **enhanced accessibility** and productivity

Data Analyst Intern

CYR Funding

Sept 2020 – Jan 2021

Markham, ON

- Independently automated a manual customer database using **VBA** which **reduced** data entry time by **45%**
- Used **smtplib** and **pandas** in Python to iterate over client emails in the customer database which **increased sales by 15%** across the term

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, R, SQL

Libraries/Frameworks: Node.js, React.js, Pandas, Numpy, Matplotlib, Jupyter Notebooks

Tools/Technologies: Linux, Git, GitHub, VSCode, Visual Studio, PowerBI, Bash, AWS, Power Automate

EXTRA-CURRICULARS

Firmware Developer

Electrium Mobility

January 2024 – April 2024

Waterloo, ON

- Employed **STM32 Cube IDE** to generate output through a Serial Audio Interface (SAI) using the **HAL_SAI_Receive** components through a polling mechanism
- Played an integral role in **Agile development** methodologies, participating in daily stand-ups, sprint planning, and retrospectives to enhance team collaboration and project efficiency

PROJECTS

LiftOff | Kotlin, Postgres, Supabase, Android Studio

Dec 2024

- Built a modular and maintainable codebase using MVVM architecture, incorporating ViewModel for lifecycle management, LiveData for real-time UI updates, and Repository for streamlined data handling
- Implemented a cloud-hosted backend with Supabase, leveraging Postgres for efficient and scalable database management

Minesweeper | Python, PyGame

Dec 2023

- Utilized Pygame library in Python to generate the graphics for the minesweeper game and structure the gameboard to a fixed size of **700 by 800 pixels**
- Generated a **random algorithm** to the game to determine the number of bombs and its location on the game board to provide a realistic user experience
- Multidimensional arrays** were elegantly captured through the utilization of a single array, where the precise positioning of each element was intelligently calculated based on the width of the board