

# Rahim Merchant

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## EDUCATION

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### University of Waterloo

*Honors Bachelor's Degree, Computing and Financial Management*

Waterloo, ON

*Sept 2022 – Expected May 2027*

## EXPERIENCE

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### Alcohol and Gaming Commission of Ontario

*Incoming Data Science and Analytics Intern*

Sept 2024 - Dec 2024

- Leveraging **Python** and **SQL** to develop analytics solutions that drive regulatory decision-making.
- Building **Power BI** dashboards to visualize **KPIs** and trends, providing insights into market trends and operational efficiency for internal stakeholders.

### Aga Khan Foundation

*Data Analyst (Contract Part Time)*

March 2024 – May 2024

- Developed **Power BI** dashboards for real-time insights into fundraising performance, enabling strategic decision-making across multiple Canadian cities.
- Leveraged **Pandas** and **Numpy** to analyze fundraising data, driving strategic enhancements in campaign performance.

### Environment and Climate Change Canada

*Data Analyst Intern*

Jan 2024 – April 2024

- Engineered and optimized **Power BI** dashboards using **DAX** and **Power Query** to dynamically illustrate government asset and workforce distributions, driving data-informed decision-making.
- Led the development and execution of **ETL scripts** to extract and integrate data from **Microsoft Azure**, enhancing data visualization and reporting in **Power BI**.
- Collaborated with teams to transform complex data into insights, driving strategic decisions on asset utilization and workforce planning, and integrated these into a key government app to enhance user experience.

### ProNavigator

*Front-End Developer Intern*

July 2023 – August 2023

- Designed and implemented user-friendly interfaces using **React** and **Material UI**, enhancing usability within ProNavigator's internal tools.
- Integrated frontend and backend systems by developing and testing **API endpoints (GET, POST, PUT)** using **Postman**, ensuring seamless data flow.
- Collaborated with cross-functional teams using **Jira** for project management and implemented unit tests with **Jest** to ensure reliable code.

## PROJECTS

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### InnSight

*Hotel Camera Analytics Platform (Startup Co-Founder)*

April 2024 – Present

- Conducted **market and user research** with hotels to identify key challenges and validate demand, driving the development of a targeted video analytics solution.
- Developed a full-stack MVP connecting hotel cameras with real-time analytics using **OpenCV** and **PyTorch**, and integrated **Twilio** for instant staff alerts on security and queue issues.
- Developed a dynamic **web app** for hotel managers to visualize metrics and flow patterns, with **MongoDB** for storage and **Figma** for prototyping, deployed on **AWS EC2**.
- Executed a pilot at a partner hotel, achieving a **15%** improvement in staffing efficiency and reducing guest wait times by **30 seconds**.
- Achieved **top 8** in University of Waterloo's Velocity Incubator **\$5k** Pitch Competition out of **80+** teams, developing and presenting **pitch decks** that showcased the product's market potential.

## SKILLS

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- **Languages:** Python, SQL, MySQL, C/C++, JavaScript, R, Racket, HTML, CSS, Go
- **Frameworks/Tools:** Pandas, Numpy, Matplotlib, Scikit-learn, Tableau, Power BI, TensorFlow, React, Flask, Git, Node.js, Express, PyTorch, OpenCV, YOLO, Streamlit, Docker, Postman, Figma, AWS, Azure, MongoDB, Docker, Bash