

Yazdan Rasoulzadeh

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EDUCATION

University of Waterloo & Wilfrid Laurier University

Bachelors of Computer Science & Business Administration Double Degree

Waterloo, Ontario

PROJECTS

Calcite | *Python, Docker, Rasa, Qt, OpenPyXL, Github Actions*

June 2025

- Engineered an **AI agent** with Rasa fully automating manual accounting workflows, saving users **5+** hours weekly
- Designed a **cross-platform** desktop application with a polished Qt(Pyside6) front-end and a **containerized backend**, enabling a smooth user experience while streamlining deployment
- Developed a **CI/CD pipeline** leveraging Github Actions, cutting testing and deployment by over **80%** percent

RustAuth | *Rust, Axum, PostgreSQL, JWT*

June 2025

- Built a user authentication **microservice**, in **Rust**, ensuring a secure and fast system
- Designed a **REST API** with protected routes, using Axum, enabling CORS support
- Implemented a relational **database** to store usernames and hashed passwords, using PostgreSQL

Portfolio Site | *Javascript, Tailwind CSS, HTML*

July 2025

- Built a **responsive** personal portfolio website showcasing projects and skills.
- Developed UI using Tailwind CSS for fast, consistent styling and JavaScript for interactivity.
- Improved site load speed and **user experience** with optimized code and mobile-first design.

Centsi | *Python, XGBoost, Pandas, Streamlit*

March 2025

- Built an **XGBoost** model to predict payment default risk, achieving **85%** accuracy on test data using advanced feature engineering
- Integrated NLP-based market sentiment analysis leveraging Google Gemini API, improving prediction coverage
- Developed interactive Streamlit dashboards visualizing risk profiles and feature importance, enhancing stakeholder decision-making efficiency.

TECHNICAL SKILLS

Languages: Python, Rust, Java, JavaScript (React), C/C++, Racket, CSS

Frameworks & Libraries: Rasa, Qt (PySide6), Streamlit, Pandas, NumPy, Matplotlib, XGBoost

Web & APIs: Axum, REST, JWT, Tailwind CSS

Databases: SQL, SQLite, PostgreSQL

Tools & Environments: Docker, Git, VS Code, IntelliJ, PyCharm, Jupyter, Google Colab, Kaggle

EXPERIENCE

Battle Over Bins — Hackathon Winner

Feb 2025

MakeUofT

Toronto, Ontario

- Led a cross-functional team in designing and delivering BOB, an innovative smart recycling bin that scans product barcodes to assess recyclability and provide real-time disposal guidance.
- Directed hardware-software integration efforts, delegating tasks involving Arduino sensors, Streamlit frontend development, and Google Gemini AI API integration.
- Oversaw troubleshooting and optimization to ensure system reliability, including bin capacity monitoring and automatic usage restriction when full, driving project success under tight deadlines.