Danial Zoraiz Ramzan

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PROFILE

Third year student **studying Mathematics, Computer Science, and Data Science at UBC** with an interest in Finance. I have done SWE internships, take part in two different teams at UBC Subbots and work at the Sauder School of Business. **Actively seeking SWE, Data Science and Analytics positions for Winter 2025 (up to 16 months) & willing to relocate**.

EDUCATION

University of British Columbia — **Anticipated Graduation: May 2026**
Bachelor of Science in Mathematics, Minor in Data Science — *Vancouver, BC*

Relevant Courses: Calculus I-III, Linear Algebra, Data Structures & Algorithms, Microeconomics, Data Science

EXPERIENCE

Software, Sound Localization Subteams — **October 2023 – Present**
UBC Subbots Engineering Design Team — *Vancouver, BC*

- Implemented digital filtering, FFT's on mic data to isolate the direction of noise being emitted by a pinger using Python.
- Set up and configured hardware including enabling global SSH on different Linux systems using ngrok reverse proxy.
- Upgraded ROS2 version on our submersible to enhance package compatibility, ensuring an easier development cycle.

Learning Services Support Student — **September 2023 – Present**
UBC Sauder School of Business — *Vancouver, BC*

- **Ensured seamless class operations** by delivering IT/AV support for faculty, editing recorded lectures.
- Identified and proposed optimizations to inefficiencies by researching Workday REST calls to **reduce shift logging time by 50%** and developing Python scripts to streamline tasks.

Software Engineer — **December 2023 – July 2024**
Loki — *Toronto, ON*

- Excelled as a top PERN stack developer at Loki, **implementing Auth, Bookings, Stripe Payments, JWT Tokens etc**
- **Dockerized the PostgreSQL database** greatly reducing setup & ensuring consistency across developer environments.
- Utilized pgAdmin4 for database management and Postman to create RESTful routes, **reducing testing time by 70%**.

PROJECTS

Uncovered Interest Rate Parity: Empirical Study with Linear Regression | </> link — **August 2024 – Present**

- Performed an in-depth **empirical study on uncovered interest rate parity (UIP)** using linear regression models to assess if UIP holds in practice.
- Utilized both secured and unsecured risk-free rates such as **SOFR, CORRA, SONIA, TONAR**, sourced from reputable financial institutions including the **Bank of Japan** and **Federal Reserve**.
- Gained proficiency in using a **Bloomberg Terminal** for real-time data gathering and economic research, which significantly enriched my analysis and understanding of global interest rates.

FinanciallyFit: Reverse Attendance-Based Java Billing App | </> link — **September 2023 – December 2023**

- Developed a totally **novel full-stack gym billing system**, which imposes financial penalties for missed gym sessions.
- Implemented user management, bill generation, data persistence, etc with **testing using JUnit** and an intuitive GUI.
- **Achieved 102% on my course project** by implementing user stories and **CI/CD** principles, streamlining future add-ons

Lead Data Scientist, Pulsar Classifier | </> link — **March 2023 – April 2023**

- **Led a team of 4 people** on a data science project using R to accurately classify pulsars using the **KNN machine learning classification algorithm** on the HTRU2 dataset, focusing on 8 key variables for predictive analytics.
- Produced a pulsar classifier with a **>90% accuracy on test data while avoiding overfitting.** Achieved 95% in the project, perfoming EDA, model training, and outlining our process in Jupyter Notebooks for a streamlined workflow.

TECHNICAL SKILLS

Languages: PHP, Java, Python, C/C++, SQL (Postgres), JavaScript, TypeScript, HTML/CSS, R, Racket
Frameworks: React, Node.js, Swing, JUnit, Express.js, TypeORM, Tailwind CSS
Developer Tools: Git, Docker, VS Code, Android Studio, IntelliJ, WebStorm, DataSpell, Jupyter Notebook, Excel
Data Science/Machine Learning: Pandas, SciPy, NumPy, matplotlib, Tidyverse, Tidymodels, kknn, GGally, readr