

# Muhammad Rabee

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## EDUCATION

**University of Waterloo** | Bachelor of Computer Science, Minor in Statistics

Sep 2020 – Apr 2025

- **GPA:** 3.92/4.00 (Dean's List)
- **Relevant Coursework:** Data Structures, Algorithms, Databases, Intro to Compilers, Object-Oriented Software Development, Computational Statistics & Data Analysis

## SKILLS

**Languages:** Python, JavaScript, TypeScript, Java, SQL, C, C++, HTML/CSS, R

**Frameworks/Libraries:** Pandas, React, Node.js, Express, Matplotlib, Scikit-learn, Seaborn

**Tools:** Docker, Git, Linux, Bash/zsh, Tableau, Jira, Amazon Web Services (AWS)

## EXPERIENCE

**Amazon** | Software Development Engineer Intern

May 2023 – Aug 2023

- Implemented a full-stack application using **Java**, **TypeScript**, and **DynamoDB** that detected and resolved discrepancies for Amazon's recruiting engine tool, decreasing on-call ticket resolution time by **30%**.
- Automated front-end integration testing using **Cypress**, decreasing manual bug bash time and reducing deployment times to production servers by **25%**.
- Authored a technical design document outlining functional and non-functional specifications, including API sequence diagrams, software architecture decisions, and test plans.

**Scotiabank Global Banking & Markets** | Data Scientist/Engineer Intern

May 2022 – Aug 2022

- Developed an email framework built in **Python** that automatically delivered emails conveying early warning signals of client credit deterioration to **100+ investment bankers** based on portfolio changes.
- Built and maintained an ETL data pipeline with **AirFlow**, feeding real-time financial data to Tableau dashboards used by bankers to manage client risk by **20%**.
- Conducted exploratory data analysis using a Financial Markets database (Refinitiv), visualizing data with **Pandas** and **Seaborn** to present valuable insights to Directors.

**Scotiabank** | Data Analyst Intern

Jan 2022 – Apr 2022

- Deployed **5 PowerBI** dashboards into production, providing views on ongoing projects, milestone status updates, and compliance regulations at the bank.
- Performed ad-hoc **SQL** queries, retrieving valuable data for other ongoing projects on the team, reducing downtime between projects by **15%**.

## PROJECTS

**Powerlifting App** | JavaScript, React, Node.js, MySQL, Express, Docker



- Developed a full-stack powerlifting application that allowed users to track lifts, create accounts, follow other users on the app, and display personalized user feeds with a **MySQL** database, **React** frontend, and **Node.js** backend.

**Biquadris (2-player Tetris)** | C++, Bash, Object-oriented programming

- Created a modified version of Tetris using object-oriented programming principles that supported two-player capability, and special abilities with graphic support in **C++**.

**WLP4 Compiler** | C++, MIPS Assembly

- Engineered a compiler that translates WLP4 (subset of **C**) to **MIPS assembly** ensuring compliance with semantic and syntactic rules through scanning, parsing, context-sensitive analysis, and code generation.

**Personal Website** | HTML, CSS, JavaScript, Netlify



- Designed a responsive web page using **HTML**, **CSS**, **JavaScript** and hosted via Netlify to showcase projects, and previous internship experience.

## COURSES & CERTIFICATIONS

- **Coursera:** Neural Networks & Deep Learning, Machine Learning (Stanford), Structuring Machine Learning Projects, Improving Deep Neural Networks