

FAHIM RAHMAN

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Results-driven software developer with expertise in managerial skills, analysis and process automation seeking to contribute to the field of technology in dynamic environments.

EDUCATION

Bachelor of Computer Science, Carleton University

- Specialized coursework: Algorithms, Data structures, Database systems, Mathematical Foundations, Software Engineering

TECHNICAL SKILLS

- Python, Java, C++, Javascript, Typescript
- Frameworks: Django, SQL, React, Node.js, Express, RESTful APIs
- Others: POS, Excel, PowerBI, VBA, Git

PROFESSIONAL EXPERIENCE

IT Analyst Intern, *Shanti Acquisition*, Boston, USA (Remote)

2022-2023

- Optimized backend architecture by developing services in **Python** and **Node.js**, integrating disparate data sources to enable real-time access and improve data flow.
- Redesigned **SQL** database structures and optimized queries, resulting in faster data retrieval and improved backend performance.
- Built automated ETL pipelines in **Python**, reducing manual data processing by 50% and streamlining data transformation and loading.
- Designed and implemented **RESTful APIs** to enable seamless access to key metrics, supporting real-time reporting and facilitating collaboration across departments.

Supervisor, German Doner Kebab, Ottawa, Canada

2021 – Present

- Lead and managed a team of 15 employees, overseeing daily operations, task delegation, and scheduling to ensure optimal workflow and productivity.
- Implement and maintain digital inventory tracking systems, using **SQL** for data management, optimizing stock levels, reducing waste, and automating ordering processes.
- Oversee the configuration, maintenance, and updates of the restaurant's Point-of-Sale (**POS**) system, ensuring smooth transactions and accurate data collection.

PROJECTS

Personal Finance tracker

2023

- Developed a web-based finance management application with real-time data visualization for tracking income, expenses, and budgeting.
- Utilized **Node.js** and Express to build the backend, leveraging a **RESTful API** for efficient data communication, and integrated **SQL** for accurate data management and reporting.
- Automated repetitive tasks like monthly reports and budget tracking using VBA scripts, with a responsive front-end built in **React** and **TypeScript**, optimized by Vite.

Elevator management system

2022

- Developed an elevator simulator using **C++** and **Qt Creator** to model and manage an elevator system, incorporating algorithms to efficiently process and prioritize user requests.
- Designed and implemented an intuitive graphical user interface (GUI) in Qt Creator to visually represent elevator components and their interactions, enhancing system transparency and user experience.
- Engineered a custom algorithm utilizing a binary search tree (BST) and polymorphism to optimize the assignment of stopping floors for two elevators operating in parallel, improving system efficiency and reducing response times.