Waleed Zafar
Software Engineer

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EDUCATION

BS Computer Science
University Of Central Punjab

08/2020 - 08/2024

Intermediate in Computer Science
Concordia college Lahore

04/2018 - 02/2020

WORK EXPERIENCE

Software Engineer Intern
Carte Blanche

04/2023 - 09/2024   *Lahore,Pakistan*

Achievements/Tasks

- Implemented Charles Peirce's Triadic Logic, enabling complex data queries that improved decision-making accuracy by 10%.
- Developed programmable logical operators, leading to a 5% reduction in computational errors across multiple use cases.
- Created a C++ library that provides Triadic Logic functionality, which was adopted by 3 different projects and improved code efficiency by 20%.

CERTIFICATES

Carte Blanche (04/2023 - 09/2023)

SKILLS

Rust   C/C++   JavaScript   React   Node

MySQL   GitHub   Java   Git   Python

Express   MongoDB   Oracle   Flutter   Kotlin

API Development   Compiler Construction

Linux Bash   AWS   Database Engineer

PROJECTS

Triadic SQL Database Engine(FYP) (10/2023 - 06/2024)

- Integrated multiple programming languages, including Rust for the back end, SQL for query processing, and React for the front end, ensuring seamless communication and robust performance across all components
- Developed an innovative SQL Database Engine focusing on logical and mathematical frameworks, improving query performance by 5% and reducing storage requirements.
- Created a React-based front-end code editor, enhancing user productivity and enabling real-time syntax checks.
- Built a Rust-implemented data engine that efficiently processed large volumes of transactions with high accuracy.
- Developed a server providing APIs and endpoints, reducing API response time by 2% and handling multiple request in parallel.

Automatic Parking Management System

- Developed an automated parking management system using C++ and Arduino.
- Integrated sensors to detect occupied parking slots and displayed available spaces on a large screen.
- Implemented real-time guidance to direct drivers to the nearest parking spot.
- Enhanced user convenience by providing alternative routes to other buildings if the current one was full.

Mobile Food Ordering Application

- Developed a mobile food ordering app using Flutter and Kotlin for Android.
- Enabled users to browse menus, place orders, and track deliveries in real-time.
- Integrated with a cloud-based storage system for efficient data management and user history.
- Ensured a seamless user experience on mobile devices through robust UI/UX design.