

Muhammad Ataa Ur Rasool

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Experience

Dsportshub

Jun. 2024 – Aug. 2024

Backend Engineer - Intern

- Developed and maintained backend APIs using JavaScript, Node.js, and Express.js, integrating with a React frontend
- Enhanced the existing MySQL database by adding new tables and columns to support new features
- Utilized transactions for efficient database interactions and ensured optimal performance through API testing with Postman and MySQL Workbench
- Implemented JWT-based authorization, email verification, and session control to secure user authentication across multiple application modules
- Integrated existing projects into new backend architecture to improve functionality and scalability

Switch Communications

Jun. 2023 – Jul. 2023

Software Testing Intern

- Developed automated website testing scripts using Selenium with Java.
- Wrote comprehensive test cases in Java for automated testing purposes.
- Implemented game development projects using the Construct 3 game engine.
- Successfully modified existing games to enhance functionality and user experience.
- Conducted real-time testing of games on live servers to ensure optimal performance and stability.

Education

FAST NUCES

Sept. 2021 – Present

Bachelor of Science in Computer Science

Islamabad, Pakistan

Projects

BankEasy: Banking Application | Java, Springboot, MySQL, React, CSS, IntelliJ Idea

- Developed a full-stack banking application using Java, Spring Boot, MySQL, and React
- Designed and implemented a relational database using MySQL, ensuring efficient data management
- Utilized JDBC for database connectivity and JPA with the repository pattern for data persistence
- Implemented a microservices architecture with Spring Boot to support scalability and modularity
- Developed RESTful APIs to facilitate communication between frontend and backend services
- Created and managed three distinct modules: Admin, Customer, and Employee, to streamline banking operations
- Implemented a microservices architecture with Spring Boot to support scalability and modularity

Pulse: Hospital Management System | Java, JavaFX, MySQL, Scene Builder, IntelliJ Idea

- Developed a comprehensive hospital management system named Pulse using Java as the primary language.
- Utilized JavaFX to design and integrated MySQL database to facilitate efficient CRUD operations, ensuring data integrity and accessibility.
- Implemented robust backend logic using Java, leveraging Grasp Design Patterns for scalability and maintainability.
- Implemented real-time synchronization of todo updates between the client-side and the database, ensuring data consistency and immediate reflection of changes.

CafeBytes: Cafe Point of Sale | C#, SQL, WinForms, SQL Server, Visual Studio

- Developed a comprehensive cafe management system utilizing WinForms and C# containing three distinct modules: Manager, Employee, and Guest, each with tailored functionalities.
- Utilized an N-tier architecture while applying design patterns, focusing on a modular approach aiming for maximum code maintainability and re-usability
- Enabled real-time database management to ensure up-to-date information while focusing on implementing complex SQL queries with multiple joins to facilitate data management.
- Created and utilized reusable custom user controls to enhance code modularity and streamline development.

Technical Skills

Languages: Java, JavaScript, C#, C/C++, SQL

Frameworks: Springboot, Spring, Node.js, Express.js, JavaFX, Jetpack Compose, React, WinForms, Bootstrap, SASS

Tools: IntelliJ IDEA, Visual Studio, SQL Server, MySQL, Postman, Git