Abdullah Zubair

Software Engineer

Highly motivated Computer Science student with a strong foundation in software development and a passion for utilizing technology to solve real-world problems. Skilled in C++, back end software development using Django, Django REST Framework, and database development using MySQL. Strong analytical and problem-solving abilities, as evidenced by successful completion of various academic and side projects. Continuously seeking new challenges and opportunities to expand knowledge and skills.

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github.com/iabdullah15

EDUCATION

BS Computer Science
University of Central Punjab

10/2020 - Present   *Lahore, Pakistan*

Relevant Modules

- Introduction to Database Systems
- Data Structures and Algorithms
- Analysis of Algorithms
- Object Oriented Programming
- Web Application Development

RELEVANT PROJECTS

Red Black Tree Implementation (04/2022 - 06/2022)
- Developed a robust Red-Black Tree data structure in C++, offering efficient insertion, deletion and search operations.
- Utilized the self-balancing property of Red-Black Trees to ensure logarithmic height, maintaining optimal performance for various dynamic data scenarios.
- *C++*

Global Superstore Performance Analysis (11/2022 - 12/2022)
- Developed a suitable ER diagram in MySQL and leveraged the forward engineering functionality in MySQL Workbench to seamlessly translate the diagram into a physical database schema, ensuring accurate representation and smooth implementation.
- Extracted and utilized existing data from an Excel spreadsheet, effectively transferring and populating this data into the database, ensuring data integrity.
- Used Tableau to generate diverse visualizations including map charts, bubble charts, and line charts, focusing on sales and profit analysis within the USA, analyzing the data by state.
- *MySQL, Excel, Tableau*

Restaurant API (01/2023 - 01/2023)
- Developed an API in which employees with different roles able to browse, add and edit menu items, browse orders, assign delivery crew to orders and finally deliver the orders.
- Restricted all endpoints to be accessed by authenticated users only.
- Implemented access control such that users will be able to perform actions based on whether they are authorized or not.
- Enabled rate limiting to ensure that no more than 15 requests per minute are made to the API endpoints.
- *Django, Django REST Framework, Insomnia (API Testing) and SQLite.*

Resident Complaint App (03/2023 - Present)
- In the process of designing and developing a web based portal for the residents of an apartment complex to make it easy for them to file complaints.
- Implemented a custom user model which is divided into two groups of users. One group consists of users which belong to the apartment administration and the other are the Residents.
- *HTML, CSS, Bootstrap, Django and MySQL.*

TECHNICAL SKILLS

Python · Django · Django REST Framework · MySQL · C++ · Source Control · HTML · CSS · JavaScript · Bootstrap · SQLite · Data Analysis · REST APIs · Linux · C Language · Tableau

ACHIEVEMENTS

CGPA based scholarship (02/2021 - Present)
Maintained a CGPA above 3.3 to be eligible for a 25% scholarship throughout all semesters.

COURSES & CERTIFICATES

Meta Back-End Developer Professional Certficate (09/2022 - 02/2023)

Meta Database Engineer Professional Certificate (10/2022 - 05/2023)

The Complete Web Development Bootcamp by Angela Yu (07/2022 - 12/2022)

Django for Everybody Specialization (University of Michigan) (01/2023 - Present)