

ABBAS AZIZ

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SKILLS

Programming: JavaScript, Python, TypeScript, C++, Java
Frameworks: Flask, Django, React, Angular, Node, Express

Database: PostgreSQL, SQLAlchemy, MySQL, MongoDB
Cloud: AWS, Heroku, Docker, Kubernetes, Azure, Jenkins

PROJECTS

Full stack coffeeshop app

March 2023

- Developed a full-stack coffeeshop application using Flask APIs and Postgres as the database service.
- Designed and implemented a responsive user interface using React and TypeScript. Learned how to render graphics with data Utilized unit testing to ensure system functionality.
- Deployed the app using AWS, services such as EKS, EC2, Kubernetes, and Docker making the app scalable for 1000's of users. Experienced working with containerization, deployment, and other cloud technologies.

Trivia – Online Quiz app

January 2023

- Created Trivia, a web-based quiz game that tests the user's knowledge on various topics using Flask APIs in the backend, and ReactJS in the frontend.
- Designed and implemented database models in Postgres, utilized SQLAlchemy for database communication within the Flask framework. Created database models with proper migrations.
- Implemented unit testing to ensure system functionality and reliability. Contributed to the development of user interface design and functionality, with thorough documentation of every API used in the app.

Fyyur – Artist Booking app

December 2022

- Developed Fyyur, a web-based platform that connects musicians with venue owners using PostgreSQL, SQLAlchemy, Python, Flask, React, and Bootstrap. Created database models, designed RESTful API endpoints, implemented CRUD operations, and utilized pagination and error handling.
- Designed and implemented a responsive user interface using React and Bootstrap. Contributed to team collaboration and communication, resulting in timely project completion.

Smart Energy Management System

September 2021

- Led a team of 3 engineers to design a real-time monitoring system for home energy expenditure and automated load management using Arduino, Android, APIs, Networking modules and IoT sensors.
- Developed an Android application for remote control and monitoring of home appliances. Contributed to reducing energy consumption and promoting sustainability.

PROFESSIONAL EXPERIENCE

Spec Digital

UK (remote)

Junior Developer

Jan 2021 – Nov 2021

- Worked on numerous projects ranging from web applications to mobile apps. My expertise includes working with JavaScript, Python, React, Node.js and MongoDB.

Psilocybin Alpha

USA (remote)

Junior Developer

Sept – Dec 2020

- Contributed to content creation, technical maintenance for company website. Worked at the Frontend and got to observe the backend operations.

National Transmission & Dispatch Company

Peshawar, KP

Technical Intern

Jun - Oct 2020

- Troubleshooting using the SCADA system software. Maintenance of vacuum circuit breaker panels, isolators of 132kV, 220kV systems, testing of HV circuit breakers protection relays.

EDUCATION

University of Engineering and Technology

Peshawar, KP

B.Sc. Electrical Engineering

September 2021

- Majored in Electrical Power with a 3.45 CGPA. Core focus on Programming, Embedded Systems Design, Microcontrollers, Control Systems, and Power System Analysis. Member of IEEE. Member of Rotaract Club.

Full-stack Web Developer

Udacity

Nano Degree

March 2023

- Obtained comprehensive knowledge of web development, including HTML, CSS, JavaScript, TypeScript, Python, Flask, SQL, and React. Deployed the full-stack apps using AWS and Heroku serving from a database.