

Ahmed Baig

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TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, TypeScript, GO, HTML/CSS

Databases: MySQL, PostgreSQL, MongoDB

Technologies: Node.js, NestJS, React.js, Express.js, Web3.js, Flask, AWS, Twilio, Docker, Jenkins, Github Actions

EDUCATION

National University of Computer and Emerging Sciences

Islamabad, Pakistan

Bachelor of Science in Computer Science

2020 – 2024

EXPERIENCE

Full Stack Engineer

Aug 2024 – Present

QLU.ai

Islamabad, Pakistan

- Developed and enhanced production-level features using NestJS, React, React Query, Postgres, and Twilio, ensuring scalable and efficient web applications.
- Designed and implemented communication systems, including incoming/outgoing calls and messaging, by integrating Twilio's API for seamless user interactions.
- Optimized API performance and data processing, enabling efficient handling of 80,000+ data items in a single API call through algorithmic improvements and database optimizations.
- Built and expanded core functionalities such as anonymous contact handling, contact notes, and real-time messaging, significantly improving user experience and workflow efficiency.
- Developed a **real-time chat application** using WebSockets and the PERN stack, ensuring low-latency communication and robust performance.
- Resolved complex technical challenges, including enhancing API efficiency, improving data processing algorithms, and ensuring smooth operations in high-traffic environments.

Fellowship Associate - Backend

June 2024 – Aug 2024

Fasset

Islamabad, Pakistan

- Contributed to the developing a **Flexible Transaction Fee System** for Fasset, implementing JWT authentication, Redis caching, and input validation using Sequelize ORM (PostgreSQL).
- Gained expertise in MVC backend architecture while collaborating with Fasset's national and international teams during the fellowship.

Backend Development Intern

July 2023 – Aug 2023

MRS Technologies

Islamabad, Pakistan

- Contributed to the development of a **IoT-based microgreens plant system** for the MVP project.
- Designed and implemented backend using AWS Amplify, DynamoDB, GraphQL for data integration, and AWS Lambda for user sign-up via Cognito. Selected as one of the top 15 interns out of 13,000 candidates.

Web Development Intern

Aug 2022 – Sept 2022

Musketeers Tech (Private) Ltd

Lahore, Pakistan

- Contributed to the development of a **Pet Store Management System** using the MERN stack.
- Collaborated on full-stack development using MERN, Docker, and Git/GitHub.

PROJECTS

FYP - TranspaRent | *MERN, Web3, Solidity, AWS, Terraform, Flask, Ganache, JWT*

- Revolutionized property rentals with a blockchain-driven platform for streamlined, secure, and compliant tenant agreements. Enabled AI-driven analytics for market pricing.
- Collaborated on a high-level architectural solution, integrating smart contracts for dispute resolution and real-time agreement validation.

CERTIFICATIONS

AWS Academy Microservices and CI/CD Pipeline Builders (AWS)

2024

freeCodeCamp: Back End Development and APIs

2023

freeCodeCamp: JavaScript Algorithms and Data Structures

2022

Datacamp: Introduction to Python

2022