

# 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**

*Bachelor of Science in Computer Science*

Islamabad, Pakistan

2020 – 2024

## EXPERIENCE

**Full Stack Engineer**

*QLU.ai*

Aug 2024 – Present

*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**

*Fasset*

June 2024 – Aug 2024

*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**

*MRS Technologies*

July 2023 – Aug 2023

*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**

*Musketeers Tech (Private) Ltd*

Aug 2022 – Sept 2022

*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