

# MOHAMMED ZULQARNAIN

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## WORK EXPERIENCE

### Full Stack Engineer

*Babbage Insight, Bengaluru, Karnataka, India - remote | May 2025 – July 2025*

- Developed and maintained full-stack applications using **Next.js** (Frontend) and **Fast API** (Backend).
- Designed, enhanced, and managed **RESTful APIs** for scalable system integration.
- Managed and optimized **PostgreSQL** databases for high-performance data storage.
- Worked with **AWS EC2 instances**, **Docker containers**, and **Clerk** for authentication and user management.
- Integrated and customized **ShadCN UI components** for modern frontend design.
- Handled **GitHub CLI**, managed repositories, and implemented **GitHub Actions** for CI/CD workflows.

### Research Intern – Experience Design Lab

*PES University, Bangalore | March 2025 – May 2025*

- Conducted research and development in Interaction Design for Extended Reality (XR), building working prototypes using Unity for immersive experiences while learning C# scripting.
- Practiced Unity and C# independently by building interactive games such as *2D Monster Chase*, *3D Coin Game*, and *3D Endless Game* to improve skills and gain hands-on experience.
- Developed custom plugins in C# to enhance XR applications, conducted experiments to improve usability and performance, and contributed to team discussions, presentations, and technical report writing

## PROJECTS

### Focus Learn: [GitHub](#)

- Developed a personalized learning platform to reduce distractions and enable focused learning.
- Implemented real-time progress tracking and a rich text editor for downloadable chapter-specific notes
- Allow users to explore and fork public journeys for a customized learning experience
- **Tech Stack** : React.js, Node.js, MySQL, YouTube API, JavaScript, Tailwind CSS

### Heal Link - Doctor Appointment Booking: [GitHub](#)

- Developed a web app for doctor appointment booking with user authentication, doctor profiles, and scheduling. Integrated transaction history and appointment approval/rejection for doctors.
- Built the front end with React.js and Tailwind CSS, and the backend with Node.js, Express.js, and MongoDB. Used JWT for secure authentication and created a user-friendly experience for patients and doctors.
- **Tech Stack**: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JWT

## SKILLS

- **Programming Language s**: Java, JavaScript, Python, C++, MySQL
- **Framework and tools**: React.js, Node.js, Express.js, Next.js, Tailwind CSS, Fash API, GitHub, AWS, Docker, Kubernetes, Postman
- **Core Concepts**: OOP, Data Structures and Algorithms (DSA), Database Management, Computer Networks (CN), Operating Systems (OS)
- **Soft Skills**: Problem Solving, Teamwork, Communication, Decision Making, Active Learning, Leadership, Adaptability

## EDUCATION

<b>PES University (RR Campus) Bengaluru - B-Tech in Computer Science and Engineering</b>	<b>2021-2025</b>
<b>Shaheen PU Collage, Bidar, Karnataka- Department of Pre - University - 94.66%</b>	<b>2019-2021</b>
<b>Shadaan High School, Humnabad, Bidar, Karnataka - State Boards - 88.48%</b>	

## CIRTIFICATIONS AND ACHIEVEMENTS

Introduction to AI with Java – Infosys Springboard

Build Web App with Angular, Node.js, and Firebase – PESUIO

Problem Solving - Intermediate – Hacker Rank

Programming Fundamentals: Command Line Interface & Operating System Commands – Infosys Springboard