

Mohammad Shahanwaz

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EXPERIENCE

BossCoder Academy

Noida, UP

Senior Software Engineer (Team Lead)

April 2025 – Present

- Developed AI mentor and in-house doubt support chat system using **OpenAI APIs** replacing Interakt, reducing manual support effort by over **60%** and cost by **50%**.
- Migrated backend servers from App Engine to serverless **Cloud Run** service, cutting backend cost by **70%** and improving performance.
- Moved **GitLab CI/CD** self-managed runners from **AWS EC2** to **GCE** instance with **Terraform** IaC, reducing infra cost by **85%**.
- Set up **load balancing** across Cloud Run regions, improving uptime and latency by **70%**.
- Mentored and led a team of around **40** engineers and interns through development, reviews, and best practices.

Software Engineer

July 2023 – March 2025

- Scaled platform to support **10K daily active users**, optimizing application performance and reliability.
- Engineered online internal code execution platform using **Judge0 API** for coding assessments, exams, and practice, reducing dependency on external platforms by **95%**.
- Created custom **HLS** video player with **AES + RSA encryption** for security and watch analytics.
- Automated testing, builds, and deployments with CI/CD pipelines in **YAML**, saving **3–4 hours** of manual effort per feature release.
- Improved build speed and cut deployment time by **50%** via pipeline optimizations.

Software Engineering Intern

January 2023 – July 2023

- Built full-stack features using **React.js**, **Node.js**, and **Flask** with **Firebase** for real-time updates.
- Managed 2+ service deployments on **AWS EC2** and **GCP App Engine** (Judge0, Flask).

PROJECTS

Imagec App – Live | Code

January 2025 – February 2025

- Developed a full-stack **e-commerce image platform** using **Next.js 15**, **TypeScript**, and **MongoDB**, supporting **500+** digital assets with license-based pricing.
- Integrated **ImageKit** for **30% faster** image optimization and CDN delivery; used **Razorpay** to process payments monthly securely.
- Implemented secure login via **NextAuth** and set up email confirmations, improving user retention by **15%**.

Facial Emotion Recognition (CNN) for Rehabilitation – Code

August 2022 – April 2023

- Achieved over **85% accuracy** on FER2013 dataset with CNN-based facial emotion recognition for patient monitoring.
- Integrated ML model with **Arduino LED** for emoji display and built a **MERN app** to analyze **rehab sessions**.
- Co-authored an ACM-published research paper on the system and its mental health applications.

PUBLICATIONS

Facial Emotion Recognition (CNN) for Rehabilitation – DOI

October 2023

- Co-authored a peer-reviewed research paper on a deep CNN-based FER system with hardware integration, accepted at the **IC3 2023** conference for real-time emotion monitoring in rehabilitation.

EDUCATION

National Institute of Technology, Delhi

Delhi, India

B.Tech. in Computer Science and Engineering

August 2019 – May 2023

TECHNICAL SKILLS

Languages: C/C++, Python, TypeScript, JavaScript (ES6+), SQL, HTML/CSS

Frontend: React.js, Next.js, Redux, Tailwind CSS, Radix UI, Shadcn UI, Vite, Zustand, React Query, Chrome DevTools

Backend: Node.js, Express, Flask, Redis

DevOps & Infra: Docker, YAML, Terraform, GitLab CI/CD, GitHub Actions, GCP, AWS

Databases: MongoDB, PostgreSQL, MySQL, Firestore, SQLite

Tools: Git, Bash, Vim, VSCode, Zed, Postman, Figma, Linux, Jest, ESLint, Slack, Google Analytics, GitHub Copilot