

# Mohammad Shahanwaz

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## EXPERIENCE

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### 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 a secure **HLS** video player with **AES** and **RSA encryption** analytics, replacing **Vimeo** and cutting video hosting and bandwidth cost by **65%**.
- Automated deployment cycle with CI/CD pipelines in **YAML**, saving hours of manual effort per feature release.
- Improved build speed by migrating to **Vite** build tool and cut deployment time by **75%** via pipeline.

Software Engineering Intern

January 2023 – July 2023

- Built a full-stack **MVP** platform using **React.js**, **Node.js**, and **Flask** with **Firebase** with essential features.
- Monitored multiple services logs, deployments and up-times on **AWS** and **Google Cloud Platform**.

## PROJECTS

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**Imagec App** – Live | Code

January 2025 – February 2025

- Developed a full-stack **e-commerce image platform** using **Next.js 15**, **TypeScript**, and **MongoDB**, supporting **100s** of digital assets per account with license-based quality-wise pricing.
- Integrated **ImageKit** for image optimizations, transformation and storage with faster **CDN delivery**; used **Razorpay** to process payments securely.
- Implemented secure login via **NextAuth** and set up email confirmations with **100%** success rate.

**Facial Emotion Recognition using Deep 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 a research paper published in ACM IC3 2023 conference on the system and its applications.

## PUBLICATIONS

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**Facial Emotion Recognition using Deep 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 **ACM IC3 2023** conference.

## EDUCATION

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**National Institute of Technology, Delhi**

Delhi, India

*B.Tech. in Computer Science and Engineering*

August 2019 – May 2023

## TECHNICAL SKILLS

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**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, DevTools

**Backend:** Node.js, Express, Flask, Redis, EC2, Cloud Memorystore, Compute Engine

**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, Vite, Babel, ESLint, GitHub Copilot