

# Kollimarla Sai Sanjay

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**Summary** — Detail-oriented Full Stack Developer with 2+ years of hands-on experience in MERN and MEAN stacks, building scalable web apps, AI-driven features, and real-time proctoring systems. Adept at leading architecture, database design, and performance tuning while mentoring teams and delivering production-grade solutions.

## Skills

**Languages** JavaScript, TypeScript, Python, Java, C.  
**Frameworks** React.js, Angular, Node.js, Express.js, Bootstrap, OpenCV.  
**Databases** MongoDB, MySQL, SQL

**Tools** AWS S3, Git, Docker, Postman, VS Code, Webpack.  
**Concepts** RBAC, REST APIs, JWT, CI/CD, Cloud Architecture.

## Experience

### NexusIQ Solutions

Feb 2024 – Present

Software Engineer

- Spearheaded architecture and end-to-end MERN delivery of a multi-tenant exam-management SaaS for academia corporates.
- Engineered granular RBAC with 40+ customizable CRUD permissions across users, roles, courses, subjects, topics, questions, exams, and SMTP settings.
- Integrated OpenAI-powered question generation descriptive-answer evaluation, cutting manual content prep by 70%.
- Deployed AWS S3 pipeline storing browser-proctoring artefacts—YOLO-flagged screenshots examinee images.
- Implemented real-time browser video proctoring (YOLOv5 + Web APIs), reducing cheating incidents during pilot runs.

### Freelance

May 2023 – Jan 2024

Full Stack Developer

- Delivered MEAN/MERN projects end-to-end—requirement gathering, architecture, development, deployment—serving 5+ SME clients.
- Optimized API response times by up to 40% through query tuning and caching.

### Upgrad Insofe

Nov 2022 – Apr 2023

Junior Software Engineer

- Built Angular components Node.js APIs for analytics dashboards; reduced page load by 30% via lazy-loading.
- Collaborated with data team to integrate ML models into production endpoints.

### Verzeo

May 2021 – Jun 2021

Machine Learning Intern

- Developed SVM-based diabetes predictor digit recognizer; achieved 98% accuracy on MNIST.
- Gained hands-on experience with Pandas, Scikit-learn, and TensorFlow.

## Education

### Geethanjali College of Engineering Technology

B.Tech in Computer Science Engineering

CGPA: 7.8/10

2019 – 2023

Hyderabad, Telangana

## Certifications

- Full-stack Development (HTML, CSS, JS, React, Node.js) — NxtWave
- Java Full Stack — Wipro TalentNext
- Machine Learning using Python — Verzeo
- Git, SQL, Command Line, Responsive Design — NxtWave

## Projects

### Jobby App

React.js, Node.js, MongoDB, JWT, CSS

- Full-stack MERN job-search platform with profile management, job listings, and secure login.
- Built RESTful APIs with Node.js, Express, and MongoDB; implemented JWT auth and robust error handling.
- Added advanced search filtering (role, salary, designation, location).
- **Demo credentials:** sanjay\_kollimarla / sanjay\_kollimarla

### **Human Activity Recognition**

**Python, OpenCV, Deep Learning**

- Built real-time HAR system using ResNet VGG16 with transfer learning from ImageNet.
- Achieved 96.95% accuracy on Weizmann dataset with OpenCV ONNX runtime integration.
- CLI-based model selector with evaluation metrics (precision, recall, F1-score).

### **Virtual Mirror System**

**Python, OpenCV, Computer Vision**

- Created a real-time virtual dressing room using Viola–Jones face eye detection.
- Applied alpha-blended overlays with scaling and rotation for accessory simulation.
- Enabled seamless try-on UX using standard webcams.

### **Edu Friend**

**HTML, CSS, JavaScript**

- Built a resource aggregation portal that centralizes exam preparation content.