

MANDAR JOSHI

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PORTFOLIO: mandarjoshi-portfolio.vercel.app

PROFESSIONAL SUMMARY

Results-driven Software Engineer with hands-on experience building AI-powered automation platforms, scalable microservices, and real-time applications. Proficient in Python, TypeScript, React.js, Node.js, Docker, and AWS, FastAPI with a strong foundation in NLP, computer vision, and cloud-native CI/CD deployments.

EDUCATION

Vellore Institute of Technology

Vellore, India

B.Tech in Information Technology

July 2024 – May 2028 (Expected)

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks, Object-Oriented Programming, Software Engineering, Machine Learning, Cloud Computing

SKILLS SUMMARY

Languages: Python, JavaScript, TypeScript, Java, SQL, GoLang
Frameworks: React.js, Node.js, Express.js, FastAPI, PyTorch, NumPy, Pandas, OpenCV
Tools: Docker, Git/GitHub, Postman, VS Code, Redis, MongoDB, PostgreSQL, Supabase
Platforms: AWS (EC2, S3, Lambda), Kubernetes, Linux, CI/CD Pipelines
Databases: PostgreSQL, MongoDB, Supabase, Redis; Database Design & Schema Architecture
Soft Skills: Problem Solving, Cross-functional Collaboration, Agile/Scrum, Technical Communication

OPEN SOURCE CONTRIBUTIONS

FOSSology | github.com/fossology/fossology

Active Contributor (8 PR'S merged as of today)

- Active open source contributor to **FOSSology**, a Linux Foundation project used for license compliance and copyright analysis in enterprise software supply chains
- Contributed code, bug fixes, and improvements to the repository, collaborating with maintainers and the global open source community via pull requests and issue tracking

WORK EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER INTERN | TENSE AI

Mar. 2026 – Present

- Architected AI-powered enterprise automation platform processing **500+ emails/day** with NLP-based classification and intelligent response generation .
- Engineered scalable microservices using TypeScript and Python, reducing workflow latency by **40%** via async event-driven architecture and Redis caching
- Provisioned and managed **VPS servers** with Nginx, SSL, and CI/CD pipelines; containerized **6 services** using **Docker** for consistent dev-to-production deployments.

FULL STACK DEVELOPER INTERN | TENSE AI

Dec. 2025 – Feb. 2026

- Developed and shipped **4 production features** using React, Node.js, and MongoDB, improving average page load time by **25%** through query optimization and lazy loading
- Implemented RESTful API endpoints handling **500+ daily requests** with input validation, error handling, and JWT-based authentication

PROJECTS

Continuum: AI/ML Workflow Automation Platform | [LINK](#)

2026

- Built production-grade AI/ML automation platform serving live enterprise clients with ML-powered email classification, reducing manual triage time by **60%** across **15+ custom labels**
- Deployed containerized microservices on **VPS servers** using **Docker** with CI/CD pipelines, achieving **99.5% uptime** and sub-200ms API response times

Real-Time Crowd Management System | [GitHub](#)

2025

- Engineered computer vision system monitoring **4 simultaneous CCTV streams** using YOLO-based crowd density estimation, achieving **91% detection accuracy** at 24 FPS
- Implemented predictive stampede risk detection with automated alerts, reducing latency to **under 1.5 seconds** with **under 15% CPU overhead** via frame batching

LexChat: Real-Time Chat Application | [LINK](#)

2025

- Built full-stack real-time chat application supporting **100+ concurrent users** with **sub-50ms message delivery** using WebSocket-based architecture via Socket.io
- Implemented scalable session management for simultaneous group and private chat rooms with zero message loss under load testing