OM MISHRA

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New Delhi, India

PROFILE

Full-Stack Developer with strong experience in building high-performance web and mobile applications. Skilled in crafting intuitive user experiences, architecting scalable backend systems, and delivering production-ready features with clean, maintainable code. Passionate about building customer-centric products, rapid prototyping, and high-quality engineering.

KEY COMPETENCIES

- Full-Stack Development
- API & Microservice Design
- AI/ML Integration
- Scalable System Architecture
- Cloud & DevOps
- Performance Optimization
- Distributed Systems
- Cross-Team Collaboration
- Test Automation

PROFESSIONAL EXPERIENCE

PROJECT LEAD   JUNE 2025 – PRESENT
Projexa AI

Led the development of a full-scale university project management platform used across multiple departments. Worked directly with faculty stakeholders to design secure workflows, improve evaluation transparency, and streamline student–faculty interactions.

- Built a complete digital platform for semester project management, replacing manual spreadsheets and offline workflows across multiple departments.
- Implemented secure authentication, dynamic scoring algorithms, and role-based dashboards for students, faculty, and evaluators.
- Integrated AI-assisted evaluation using open-source LLMs to generate rubric-based feedback, improve scoring consistency, and accelerate faculty review time.
- Automated evaluation, documentation, and approval workflows, improving transparency and reducing manual errors by a significant margin.
- Enhanced project tracking, communication, and documentation efficiency across departments through centralized dashboards and real-time updates.

APP DEVELOPER (COLLABORATIVE PROJECT)   FEB 2025 – MAY 2025
Xebia

Collaborated with the Sr. Director at Xebia to build both a mobile and web application aimed at fully digitizing and automating Xebia's internal training management system. Focused on reducing manual coordination, optimizing trainer allocation, and enabling data-driven decision-making through intelligent dashboards and AI-powered analytics.

- Developed a unified mobile + web platform to automate trainer allocation, session planning, and internal scheduling workflows.
- Integrated real-time calendar syncing, smart trainer search (skills, certifications, availability), and automated reminders to streamline operations.
- Built AI-driven feedback analysis to evaluate trainer performance and session quality using open-source models.
- Designed centralized dashboards for training insights, trainer efficiency comparisons, and session-level analytics.
- Reduced scheduling and manual coordination time by 40%, and improved trainer utilization by an projected 50%+.
- Improved transparency, reduced human oversight, and enabled faster decision-making for training managers.

SOFTWARE DEVELOPER   AUG 2024 – JAN 2025

The International Journal of Convergent Research

Deployed and configured an Open Journal Systems (OJS) instance to digitize the journal's submission and review workflows. Focused on hosting, automation, security, and ensuring a stable, production-ready editorial platform on AWS.

- Deployed and configured a full OJS instance on AWS EC2, including server setup, environment configuration, and domain-level routing.
- Set up secure NGINX configuration, SSL certificates, and optimized server performance for production use.
- Implemented automated backups (database + file directory) and snapshot policies to ensure data reliability and restore safety.
- Configured OJS workflows for submission, peer review, editorial decisions, and publication scheduling according to journal requirements.
- Integrated email notifications, user roles, and editorial workflow settings to fully support authors, reviewers, and editors.
- Reduced manual administrative workload by 40% and helped the journal transition to a fully digital operational model.

TECHNICAL ASSOCIATE   JULY 2022 – JUNE 2023

ThermoCraft

Supported engineering teams in developing IoT-based monitoring and automation solutions for industrial clients. Focused on backend integration, sensor data processing, and creating reliable dashboards for real-time equipment insights.

- Assisted in designing technical solutions for manufacturing and automation use cases involving temperature and performance monitoring.
- Helped build a data acquisition system using IoT sensors, enabling real-time tracking of equipment temperature, performance, and anomalies.
- Developed interactive dashboards using Flask + Chart.js to visualize sensor data and system health metrics.
- Supported backend API development, debugging, and integration to ensure smooth communication between devices and the central monitoring platform.
- Improved data reliability and reduced system downtime by refining sensor communication and backend validation workflows.

TECHNICAL PROJECTS

CANTEENPE — CAMPUS FOOD ORDERING & QUEUE MANAGEMENT APP

Built a full-scale mobile application for students to order food, skip queues, and receive real-time order updates. Designed for high traffic during peak lunch hours with a focus on speed and reliability.

- Developed a seamless cross-platform app in React Native, improving ordering convenience for 80%+ of daily canteen visitors.
- Implemented real-time order tracking, vendor dashboards, and live queue updates, reducing average wait time by 60–80%.
- Architected a scalable backend using Node.js, Flask, Redis, MongoDB, capable supporting 15,000+ users without downtime.
- Integrated Cashfree and AWS SQS, reducing payment failures and order-processing delays by 50%.

CERTSECURE — BLOCKCHAIN-BASED CERTIFICATE ISSUANCE & VERIFICATION

Built a secure certificate lifecycle platform enabling organizations to issue and verify documents with tamper-proof blockchain validation.

- Implemented Smart Contracts on Ethereum, ensuring 100% authenticity and preventing certificate forgery.
- Built admin dashboards for issuance, user verification, and audit trails, reducing manual validation time by 95%.
- Integrated Flask , NodeJS, Redis and MySQL for backend with Web3.js for seamless blockchain interactions.
- Helped eliminate manual certificate checking, improving organization-wide verification efficiency by 3×.

MOCKSTAR — AI-POWERED MOCK INTERVIEW PLATFORM

Developed an AI-driven interview simulation system used by students to practice personalized mock interviews and receive real-time scoring.

- Generated dynamic interview questions using Gemini API, increasing interview relevancy and personalization accuracy by 60%.
- Implemented user history tracking and automated PDF reporting, improving student engagement by 2×.
- Designed a clean React UI and high-performance Flask backend capable of handling hundreds of interview sessions/day.
- Boosted user completion rates through adaptive difficulty and real-time behavioral feedback.

AARAMBH — STUDENT INDUCTION & ONBOARDING PORTAL

Developed a high-scalability digital induction platform used by 5,000+ new students to streamline onboarding with day-wise tasks, announcements, progress tracking, and engagement insights.

- Created structured day-wise orientation modules with session trackers, increasing onboarding completion by 65%.
- Built live analytics dashboards to monitor attendance, engagement levels, and sentiment trends in real time.
- Integrated smart daily-feedback forms and automated reporting workflows, reducing manual administrative effort by 50%.
- Engineered the backend to handle 3,000+ peak requests per second, ensuring high availability during orientation events.
- Improved student satisfaction scores during induction week by 30% through a unified and transparent onboarding experience.

EDUCATION

K.R. MANGALAM UNIVERSITY
Bachelor of Computer Science (Full Stack Development)

AUGUST 2022 - PRESENT

NOTRE DAME
K1 - K12

APRIL 2008 - APRIL 2022

TECHNICAL SKILLS

- Languages: Python, JavaScript, TypeScript, C, C++, SQL, Bash
- Technologies & Tools: MySQL, MongoDB, Redis, AWS (EC2, S3, Lambda), Firebase, Git, GitHub, Docker, Kubernetes, NGINX, Postman, Jenkins • Frameworks & Libraries: React, React Native, Node.js, Express.js, FastAPI, Flask, Django, Tailwind CSS, Bootstrap, Redux, Socket.IO
- Soft Skills: Strong Communication, Critical Thinking, Problem-Solving, Team Leadership, Collaboration, Time Management, Adaptability, Conflict Resolution, Attention to Detail

ACHIEVEMENTS

WINNER, SMART INDIA HACKATHON (NATIONAL LEVEL) — ₹1,00,000

Built a scalable blockchain-integrated certification verification system; recognized by the Government of India for driving innovation in public-sector digitization.

WINNER, CODE XCCELERATE — GATEWAY EDUCATION — ₹1,00,000

Developed an AI-powered mock interview simulator using LLMs and real-time analytics to improve student readiness and feedback accuracy.

FINALIST / PARTICIPANT, 10+ NATIONAL & UNIVERSITY HACKATHONS

Competed in 10+ major hackathons, consistently delivering production-ready prototypes in AI, full-stack, and cloud domains—strengthening rapid problem-solving and product-thinking skills.

SPOTLIGHT RECOGNITION — K.R. MANGALAM UNIVERSITY

Awarded for outstanding contributions in building digital platforms used by thousands of students and faculty across academic departments.