

Katyayani Mishra

Software Engineer — Full Stack GenAI

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SUMMARY

Results-driven Software Engineer specializing in the architecture, design, and deployment of secure, scalable web applications with a focus on **Generative AI (GenAI)** and the **MERN stack**. Proven ability to leverage **Large Language Models (LLMs)** to build sophisticated AI-driven features and robust cloud-native solutions on **AWS**. Skilled in collaborating with **cross-functional teams** across the entire **Software Development Life Cycle (SDLC)** to deliver state-of-the-art software solutions.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

GenAI: RAG Architecture, Prompt Engineering, LangChain, LlamaIndex, LLM APIs (OpenAI, Gemini), Vector Databases

Frontend: React, Next.js, Redux, Context API, HTML5, CSS3, Tailwind CSS, ShadcnUI

Backend: Node.js, NestJS, Express.js, Spring Boot, Microservices, REST APIs, JWT

Databases/ORMs: PostgreSQL, MongoDB, MySQL, Prisma, Supabase

Cloud/DevOps: AWS (S3), GCP, Docker, Git

Concepts: System Design, OOP, DSA

PROFESSIONAL EXPERIENCE

Software Engineer Intern

Jan 2026 - April 2026

Arcstream Technologies, On-Site, Hyderabad

- Shipped **production-grade features** for **SalesBoost v2**, an enterprise multi-tenant LMS serving **10,000+** learners, using **React** and **TypeScript**.
- Implemented role-based assignment workflows with automatic propagation across **3+ org hierarchy levels**, cutting manual admin effort by **40%**.
- Engineered an **AI-driven voice assessment system** by integrating **Audeering's devAIce Web API** via **Supabase Edge Functions**, enabling real-time analysis of emotional dimensions and ASR transcription.
- Engineered end-to-end certification workflows including SCORM course delivery, PDF certificate generation, and accreditation card UX improvements, enhancing learner experience across **multiple tenant organizations**.
- Resolved critical async job failures in **BRAVO's Node.js** microservices backend, diagnosing stuck 'RUNNING' states in quarter-recalculation jobs across **4 distributed services** (API Gateway, Integration, User, Event) utilizing a **PostgreSQL** backend.
- Authored **5+ RCA runbooks** and service-level debugging playbooks, improving incident triage speed by **30%** and establishing DB-first verification methods for cross-service sync and async job observability.

Software Developer Intern

Aug 2024 - Oct 2024

Nxthub Consulting Pvt. Ltd., Remote

- Architected and scaled backend services using **Node.js** and **RESTful APIs** to support 10,000+ monthly active users.
- Containerized the application and orchestrated **CI/CD pipelines** using **Docker** and **Jenkins**, achieving **30% faster deployment cycles**.

PROJECTS

DevSync: Real-Time Collaborative IDE

GitHub

- *Tech Stack:* Next.js, NestJS, TypeScript, MongoDB, Socket.IO, Y.js, Docker, AWS Lambda, WebRTC
- Constructed a full-stack collaborative platform to solve complex real-time synchronization challenges using Conflict-Free Replicated Data Types (Y.js) and a scalable **NestJS** backend with **WebSockets**.

AINewsBuzz: AI News Intelligence Platform

GitHub

- *Tech Stack:* React, Node.js, Express.js, MongoDB, Gemini API, Socket.IO, JWT, Google OAuth
- Designed and implemented an AI data processing pipeline using Gemini API for large-scale text summarization, sentiment analysis, and fake news detection, increasing user engagement by **40%**.

EDUCATION

Bachelor of Technology, Computer Science

Expected 2026

Dr. A.P.J. Abdul Kalam Technical University, Lucknow, India

Highschool and Intermediate

2018 - 2022

Rani Laxmi Bai Memorial School, Lucknow, India

LEADERSHIP CERTIFICATIONS

Co-Organizer, Google Developer Group on Campus

2023 - 2025

Introduction to Generative AI, Google Cloud

May 2024