

RESHAV THAKUR

Software Development Engineer II · Full-Stack & AI Systems

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PROFESSIONAL SUMMARY

Full-stack SDE-II with 4+ years building scalable MERN/NestJS platforms at a growth-stage edtech company, where I was promoted within 2 years. I specialize in production-grade AI features — RAG pipelines with Amazon Bedrock and LangChain, real-time conversational AI, and voice-based roleplay engines. Also experienced in data engineering: built automated marketing analytics pipelines aggregating Google Ads, Facebook Ads, and GA data into unified dashboards. Hands-on across the stack: React frontends, Node.js APIs, MongoDB, Redis, AWS (ECS, Lambda, S3), and CI/CD.

TECHNICAL SKILLS

Frontend: Next.js, React.js, Redux, Angular, HTML/CSS, WebSocket

Backend: Node.js, Express.js, NestJS, GraphQL, REST APIs, Redis, MongoDB, SQL

AI / ML: LangChain, RAG pipelines, Amazon Bedrock, OpenAI APIs, MongoDB Vector Search, Conversational AI (Python), Voice AI

DevOps & Cloud: AWS (ECS, EC2, S3, Lambda), Docker, CI/CD (GitHub Actions), Microservices

Languages: JavaScript, TypeScript, Python

WORK EXPERIENCE

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Nov 2024 – Present

Promoted from SDE-I after 2 years · AI features, platform architecture, and infrastructure ownership

- Built Altera Chatbot — a production RAG-powered chatbot deployed on the Altera website using Amazon Bedrock and LangChain, answering prospective learner queries on PGP fee structures, admission requirements, placement outcomes, and programme details; deployed on AWS ECS with MongoDB Vector Search for accurate retrieval over structured course content.
- Engineered a real-time AI Roleplay Engine for sales training using Python, where users practice pitches against an AI-powered buyer persona; the system handles turn-based voice/text conversation, evaluates pitch quality, and delivers structured feedback — reducing dependency on live role-play facilitators.
- Developed Perfect Pitch, an AI practice tool for FMCG sales representatives to rehearse new product pitches to a simulated retailer; system scores pitch effectiveness across parameters like objection handling and product knowledge, enabling self-paced sales readiness at scale.
- Built and maintained the backend for SkillBeat, a micro-learning mobile app serving 1,000–10,000 active learners; designed the content delivery APIs, progress tracking system, and notification service to support short-form course consumption.
- Automated GrowthTracker — a unified marketing analytics dashboard aggregating spend and performance data from Google Ads, Google Analytics, Facebook Ads, and website lead events; tracked the full funnel from ad impression to lead creation, app form starts, and enrollment conversions; triggered automated daily summary emails to the internal marketing team, replacing manual reporting.
- Wrote AWS Lambda functions for analytics event processing — capturing user actions across the platform and feeding structured data into the reporting pipeline.
- Architected the core cohort learning platform using MERN + NestJS with MongoDB Vector Search, reducing API response time by 30% and lifting quarterly engagement by 15%.
- Owned CI/CD pipeline setup and containerised microservices on AWS ECS, cutting deployment time by 40% and reducing monthly cloud infrastructure costs by 20%.
- Led architecture reviews and mentored junior engineers on API design, system design patterns, and code quality.

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Nov 2022 – Oct 2024

Core contributor to LMS frontend and backend · Assignment workflows, content tracking, API performance

- Built modular React + Redux frontend components for the LMS, cutting average page load time by 35% through code splitting, lazy loading, and component-level optimisation.
- Developed RESTful APIs with Node.js/Express connected to MongoDB, added request-level Redis caching, and reduced average query latency by 25%.
- Shipped end-to-end features including assignment workflows and content tracking dashboards, contributing to a 20% increase in daily active users over two quarters.
- Integrated Razorpay payment flows and managed webhook handling for course purchases and subscription renewals.

Member of Technical Staff I | [Comley Enterprises](#)

Jul 2021 – Nov 2022

Real-money gaming platforms · Angular + Node.js

- Developed interactive real-money gaming UIs with Angular and Node.js, handling real-time game state via event-driven flows for thousands of concurrent sessions.
- Reduced critical gameplay bugs by 40% through systematic debugging, performance profiling, and optimising game event pipelines, directly improving player retention.

KEY PROJECTS

Pre-Assessment — Enterprise Employee Screening Platform

2023 – 2024

Stack: React, Node.js, NestJS, MongoDB, REST APIs

- Deployed at scale for enterprise clients including HUL and Nestlé for large-scale pre-hire skill profiling.
- Built org-specific assessment workflows with custom question sets, API-driven scoring, and dynamic assessment logic — streamlining L&D team onboarding and candidate screening.
- Designed role-based access for HR admins, enabling multi-department rollouts without engineering involvement.

Pathways — AI-Powered Career Discovery Tool

2024

Stack: React, Node.js, LangChain, OpenAI APIs, MongoDB

- Built a role-matching engine using psychometric self-assessment data to generate personalised career recommendations.
- Integrated AI-driven educational path mapping that suggested relevant courses based on skill gaps, increasing user session depth and course enrolment rates.

EDUCATION

B.Tech in Computer Science · Maharishi Dayanand University, Haryana

Jul 2017 – Jul 2021