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Deepanshu Yadav

Software Developer

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A full-stack software developer with 3+ years of professional experience in building scalable and user-centric web applications. Currently, enhancing an ed-tech CMS platform built using Angular, .NET and AWS, with a focus on performance, security and maintainability. Experienced in designing and deploying end-to-end system using Next.js, NestJS, Amazon Web Services (AWS), MongoDB and Cloudflare. Exploring Go (Golang) & Fiber framework based on the same and learning system design.

WORK EXPERIENCE

Zeus Learning

Mumbai, India (Hybrid)

Senior Software Engineer

Jul. 2025 — Present

- Implemented **composite function computation** using [SymPy](#).
- Architected and developed an assessment player utilizing **rule-based logic** to deliver adaptive, branching questionnaires tailored to individual user performance.
- Developed a data-driven feature that enables teachers to visualize class-wide and individual performance through intuitive graphical insights using [Highcharts](#), enhancing understanding of academic progress and outcomes.
- Addressed and resolved accessibility issues across the codebase to align with **WCAG 2.2 AA criterion**.
- Had an exposure to automation using Playwright; **automated 150+ cases** in three days using Claude Code, a skill and Playwright MCP.
- Resolved security vulnerabilities aligned with **OWASP** standards, improving application's security posture.
- **Tech-stack:** Angular, Angular Material UI, ASP.NET Core, AWS, C#, DocumentDB, Highcharts, MariaDB, Playwright, SymPy, TypeScript, WCAG (2.2 AA).

Software Engineer

Jul. 2023 — Jun. 2025

- Enhanced an ed-tech CMS web application by delivering new features and improving existing functionalities in line with evolving business requirements.
- Developed an **Angular micro-frontend** to handle Question and Test Interoperability (QTI) export, and integrated it with external LMS platform to enable seamless content delivery.
- Benchmarked and evaluated performance difference between **Rust (with REST)** and **.NET (with gRPC)** by developing basic microservices in both languages with same functionalities to identify whether we should migrate an existing microservice; Rust outperformed .NET implementation by **65%** in throughput.
- Updated CKEditor twice to latest v4.x.x LTS versions across the codebase to avoid security issues present in previous versions.
- Took a knowledge transfer session for the team regarding good code practices in C#, elevating overall code quality and maintainability.
- **Tech-stack:** Angular, Angular Material UI, ASP.NET Core, AWS, C#, CKEditor, DocumentDB, MariaDB, QTI, Rust, TypeScript.

PROJECTS

Interio Work [\(Live\)](#)

Dec. 2025 — Mar. 2026

[Next.js](#), [Tailwind CSS](#), [NestJS](#), [MongoDB](#), [AWS EC2](#), [Cloudflare R2](#)

- Developed and deployed a full-stack interior design platform, enabling portfolio showcasing and streamlined client enquiries.
- Engineered REST APIs and backend services using NestJS, leveraging modular architecture and DTO-based validation for maintainability and data integrity.
- Integrated Cloudflare R2 for image storage and delivery, optimizing media handling and application scalability.
- Deployed the application on AWS EC2 and automated delivery workflows through GitHub's CI/CD pipelines.
- Enforced code quality and maintainability using linting and SonarQube.

Saathi - An AI Companion [\(Live\)](#)

Sept. 2022 — May 2023

MERN, Python, ML, NLP, NLU, CNN, LSTM, RASA, TensorFlow

Bachelor of Engineering's Thesis Project

- Saathi is a **generative chat-bot** developed to support individuals with psychiatric disorders through gentle and empathetic conversations; it has achieved **4th place** at **IIT Bombay Research Conclave (ResCon)**, a national-level competition.
- Scraped, cleaned and preprocessed over **100,000+ Reddit posts** from mental health forums focused on depression, anxiety and bipolar disorder to develop robust classification models.
- The chat-bot has language generation and understanding capabilities through the implementation of the **RASA framework**.
- It can detect emotions of anger, disgust, fear, joy, neutral, sadness, shame and surprise using a Machine Learning pipeline built using **CountVectorizer** and **Logistic Regression** and signs of depression, anxiety and bipolar disorder using Convolutional Neural Network (CNN).
- **Published the paper [Saathi: An AI Companion](#) at INSCIRD 2023**, organized by the IEEE Students' Branch, Shri Sant Gajanan Maharaj College of Engineering, Shegaon (June 2023).

DSolve - Where Your Questions find Answers [\(Live\)](#)

Jun. 2022

MERN, MUI

- Built a full-stack discussion platform with authentication, like/dislike and comment functionalities.
- Implemented question lifecycle management including marking answers as helpful or resolved.
- Independently designed and developed both frontend and backend.

SKILLS

Language	C#, Go, JavaScript, Python, TypeScript
Frontend	Angular, Angular Material, MUI, Next.js, React, shadcn/ui, Tailwind CSS
Backend & Databases	ASP.NET Core, AWS, Cloudflare, Express.js, MariaDB, MongoDB, NestJS, Nginx, Node.js, Redis
Workflow & AI	ChatGPT, Claude, Docker, Gemini, Git, GitLab, GitHub, Netlify, Railway, Vercel
Design	Figma
Other	CKEditor, Highcharts, Lexical, Playwright, SymPy
Communication	English (speaking, reading and writing), Hindi (native), Marathi (reading and writing)

EDUCATION

Bachelor of Engineering in Computer Engineering, <i>University of Mumbai</i>	8.91 CGPA	2019 — 2023
Higher Secondary Certificate Examination, <i>Maharashtra State Board</i>	71.54%	2019
Secondary School Certificate Examination, <i>Maharashtra State Board</i>	83.40%	2017

ACTIVITIES

- **4th** place at **IIT Bombay Research Conclave (ResCon)** at national level Feb. 2023
- Competitions: **1st** in **Excelsior** and Switch Code, **2nd** in Web Designing, **3rd** in Code Debugging at SLRTCE 2022
- Participated in a hackathon named LOC 5.0 organised by Dwarkadas J. Sanghvi College of Engineering Mar. 2023
- Participated in Hacktoberfest 2021 Oct. 2021