

Govind Raj

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Summary

Software Developer skilled in **MERN stack, frontend development, and UI/UX design**. Strong foundation in **data structures, algorithms, interactive and scalable frontend architectures**. Head at **CodeNex Club SRM**, leading a team of 25+ members. Passionate about crafting intuitive user experiences, leading creative teams, and solving real-world problems through design and development. systems.

Education

SRM Institute of Science and Technology

Bachelor of Science in Computer Science and Engineering with specialization in Cyber Security
Chennai, Tamil Nadu

Aug. 2023 – May 2027

CGPA: 9.31

Technical Skills

Programming Languages: C, C++, Java, Python, JavaScript

Web Development: React.js, Node.js, Express.js, MongoDB, MySQL, Tailwind CSS

Tools & Platforms: Git, GitHub, Linux (Kali Linux, Ubuntu), Visual Studio Code, Command Line Tools

DevOps & Cloud: Google Cloud Platform (GCP), AWS

Experience

Deep learning Research Intern

NIT Patna

May 2025 – Present

Patna, Bihar

- Built a federated intrusion detection system with FedAdam, achieving up to 97% accuracy across attack types.
- Deployed a real-time Kafka pipeline on AWS (EC2, S3, Glue, Athena) for live threat analysis.
- Preprocessed and grouped 100K+ rows from 3 datasets into balanced subsets for FL training.

Software Development Intern

LinksUs (Startup)

Feb 2025 – Apr 2025

Chennai, Tamil Nadu

- Translated Figma-based UI/UX designs into responsive React.js + Tailwind CSS interfaces, improving user engagement by 25
- Developed and deployed a secure full-stack chat application with real-time communication, integrating Node.js, Express.js, and MongoDB for seamless data handling and user authentication.
- Completed and optimized the frontend development, progressing from 20% initial codebase to 100% production-ready state.

Fullstack Developer Intern

BufferTech LLP

Feb 2024 – Aug 2024

Chennai, Tamil Nadu

- Built responsive UIs with React.js and Tailwind CSS, improving front-end performance by 30% through efficient API integration.
- Created a full-stack chat app using Node.js, Express, MongoDB, and Socket.io, with real-time messaging and JWT authentication.
- Added an ML-based recommendation system using collaborative filtering, increasing user engagement by 25%.

Projects

PrepWise – AI-Powered Exam and Career Prep Platform

MERN, Python, Flask, AI/ML

Jan 2025

- Engineered backend using Node.js, Express.js, MongoDB, and Flask, ensuring scalable handling of user data and AI workflows.
- Built AI modules for generating personalized exam roadmaps, topic-specific MCQs from PDFs, and real-time interview simulations.
- Integrated an ATS-optimized resume builder and adaptive learning tools to deliver a tailored preparation experience for users.

MorseCode – AI-Powered Code Analysis API

Node.js, Express.js, OpenAI API, ML

Oct 2024

- Developed a backend API using Node.js and Express.js to convert source code between programming languages, debug errors, and evaluate code quality.
- Integrated OpenAI's models to detect logical flaws, suggest fixes, and explain errors, enhancing developer productivity with ML-powered feedback.
- Designed scoring algorithms to assess readability, naming consistency, and optimization, enabling objective code quality analysis.

Leadership / Extracurricular

Creatives Head

CodeNex Club SRM, SRM Institute of Science and Technology

Apr. 2023 – Present

- Leading a 25+ member creative and tech team, guiding UI/UX design, visual strategy, and seamless cross-domain collaboration.
- Elevated to Creatives Head for driving impactful designs, consistent branding, and strong coordination with tech and outreach teams.
- Oversaw design systems and user interfaces across club projects while mentoring members and managing recruitment efforts.