

PRAKASH KUMAR

FULL STACK AI ENGINEER | TECH LEAD | APPLIED AI

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SUMMARY

Full Stack AI Engineer & Tech Lead with 5+ years of experience building scalable applications using **React, Node.js, and Python**. Proven expertise in team leadership, frontend architecture, backend development, and performance optimization, with hands-on experience integrating **LLMs, RAG, and AI agents** into production applications. Strong end-to-end ownership, from UI architecture and API development to applied AI solutions, with proficiency in AI-assisted development using **Claude and Codex**.

TECHNICAL SKILLS

Languages & CS: JavaScript (ES6+), TypeScript, Python, SQL, C#, Go, Data Structures & Algorithms, LLD, Computer Networking

Frontend: React.js, Next.js, HTML5, CSS3, Redux Toolkit, GraphQL, Material UI, Ant Design, Tailwind CSS, SASS/SCSS, WCAG

Backend & Data: Node.js, Express.js, FastAPI, ASP.NET/.NET, REST API Design, JWT, MongoDB, Mongoose, PostgreSQL, Redis

AI Engineering: LLM Engineering, RAG, QLoRA, AI Agents, Prompt Engineering, Codex, Codex Plugins, Claude Code, Claude CoWork, Copilot, Cursor, ChatGPT, Gemini

Architecture & Messaging: System Design, Micro Frontends, Microservices, Design Patterns, Performance Optimization, Kafka, RabbitMQ, Docker

Testing & Delivery: Git, CI/CD, Azure DevOps, Jira, SonarQube, Jest, React Testing Library, Vite, Webpack, Agile/Scrum

Data Viz & Leadership: DeckGL, Google Maps, Charting, Team Leadership (6 engineers), Mentoring, Stakeholder Communication

WORK EXPERIENCE

Tech Lead | Coforge

Apr 2026 - Present

- Completed structured technical upskilling in enterprise React architecture, design systems, WCAG accessibility, and performance optimization.
- Practiced React/Next.js, Node.js, Python, and applied AI through hands-on labs and self-directed prototypes.
- Participated in internal knowledge-sharing and code-quality sessions while using Claude and Codex to accelerate learning.

SDE 2 (Frontend Tech Lead) | 3SC Solutions

Jun 2023 - Apr 2026

Enterprise Data Management (EDM) - Supply Chain Platform

- Led 6 engineers and owned frontend delivery for a high-traffic supply-chain data platform for 2 years.
- Built a shared React component library, reducing new table delivery from 1 day to under 1 hour (90%+ faster).
- Shipped dynamic grids with drag-and-drop columns, advanced search, row versioning, and Excel import/export.
- Cut rendering cost on large datasets using virtualization, debouncing, and React Profiler-led tuning.
- Migrated CRA to Vite and reorganized the codebase by feature, improving build speed and maintainability.
- Built Python services to validate and transform supply-chain data consumed by frontend workflows.
- Optimized SQL queries for filters, versioned records, and reporting that powered grids and exports.
- Maintained automated tests and SonarQube quality gates to improve release confidence.

Tech: React.js, TypeScript, Vite, Material UI, Micro Frontends, Python, SQL, SASS, Jest, SonarQube

Full-Stack MERN Developer | Lepton Maps

Mar 2021 - Feb 2023

Indian Oil Corporation Ltd. & Smart Market - Geospatial Platforms

- Architected and launched geospatial products from scratch using React, Google Maps, and DeckGL.
- Built Node.js/Express APIs and optimized SQL/PostgreSQL schemas and queries for map, search, and reporting workflows.
- Delivered drawing tools, distance calculations, exports, charts, and dynamic forms for enterprise users.
- Integrated map, data, and reporting services in a microservices architecture backed by MongoDB and PostgreSQL.

Tech: React.js, DeckGL, Google Maps, Node.js, Express, MongoDB, SQL, PostgreSQL, SASS, Material UI

PERSONAL PROJECTS

AI Job Hunting - AI-Powered Job Application Tracker

Aug 2026

[GitHub](#)

- Built a containerized job tracker across React, Node.js, ASP.NET Core, FastAPI, Go, and MongoDB.
- Designed API Gateway, JWT authentication, job, AI matching, and notification microservices.
- Generated resume-to-job match scores, skill gaps, and interview recommendations with AI.
- Implemented RabbitMQ event flows, Go notifications, Docker Compose orchestration, and health checks.

Tech: React, TypeScript, Node.js, ASP.NET Core, FastAPI, Go, MongoDB, RabbitMQ, Docker

Hire Me - AI Recruiter Chatbot

Aug 2026

[Live](#) | [GitHub](#)

- Built a recruiter-facing RAG chatbot that answers questions about my skills, experience, and background.
- Indexed personal and professional data in AstraDB for semantic retrieval and grounded responses.
- Designed the chat UI and API routes to support retrieval-augmented generation end to end.
- Delivered the end-to-end Next.js application and deployed it on Netlify for public access.

Tech: Next.js, TypeScript, RAG, LangChain, Gemini API, AstraDB, Vector Search, Netlify

Else Coder - Developer Learning Platform

Mar 2024 - Present

[YouTube](#) | [Instagram \(@elsecoderoofficial\)](#) | [Live](#)

- Built and deployed a full-stack learning platform covering JavaScript, React, DOM, logic, and interview preparation.
- Published 170+ logic problems and 40+ machine-coding challenges for structured practice.
- Architected reusable, mobile-first, cross-browser components that power the platform.
- Developed a site-wide AI assistant that helps learners navigate and understand content.
- Teach Full Stack and AI Agents concepts on YouTube, plus frontend and MAANG-style problem solving across social channels.
- Applied an SEO strategy that achieved top Google search visibility for the platform.

Tech: Next.js, Material UI, SCSS, Google Analytics, Search Console, Netlify, GitHub

EDUCATION

B.E., Information Technology

2016 - 2020

University Institute of Technology, Burdwan University | 72%

AWARDS & CERTIFICATIONS

- **Extra Miler Award** - recognized twice for outstanding performance (2023 and 2024).
- Micro Frontend with React: A Complete Developer's Guide - Udemy
- AI Engineer Core Track: LLM Engineering, RAG, QLoRA, Agents - Udemy
- Microservices with Node and React - Udemy