NIKHIL GOVINDARAJU

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EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA **Jan 2024 - Dec 2025**
Master of Science in Computer Science | GPA: 3.81/4.0 **Los Angeles, CA**
Coursework: Algorithms, Database Systems, Web Technologies, Information Retrieval, Machine Learning for Data Science
Leadership: Viterbi Graduate Mentor - mentoring graduate students on coursework planning, internships, and navigating USC resources

JSS SCIENCE AND TECHNOLOGY UNIVERSITY **Aug 2017 - Jul 2021**
Bachelor of Engineering in Information Science and Engineering | GPA: 9.01/10.0 **Mysore, India**
Coursework: Data Structures, Object Oriented Design, Data Mining, Operating Systems, Distributed Computing, Computer Networks, Software Engineering
Leadership: CSI Student Club - Tech Lead, led technical workshops and coordinated student developer activities

SKILLS

Languages:	Python, Java, JavaScript, TypeScript, SQL
UI & Frontend:	React, Next.js, Angular, Tailwind CSS, Bootstrap
Backend & APIs:	Node.js, Express, Spring Boot, Microservices, Flask, FastAPI, REST APIs,
Database:	PostgreSQL, Prisma ORM, MongoDB, MySQL, DynamoDB
Cloud & DevOps:	AWS (EC2, S3, Lambda, CloudWatch, RDS), GCP, Docker, Kubernetes, GitHub Actions, CI/CD
Testing & Tools:	Pytest, Playwright, Cypress, Jira, Postman, Agile/Scrum, GitHub Copilot, Cursor, Claude, ChatGPT
AI/ML:	OpenAI API integration, LangChain, LangGraph, Prompt Engineering, RAG, HuggingFace

EXPERIENCE

Jubilant HollisterStier LLC **May 2025 - Aug 2025**
Software Engineering Intern **Spokane, WA**
- Delivered a labor analytics platform using Next.js + Express, deployed with AWS (EC2, Amplify and RDS), minimizing reporting time by 50% and eliminating 25% of planning errors
- Designed API-first backend services and normalized Prisma schemas, enabling modular feature expansion, improving scheduling throughput by 25%
- Created management dashboards using React + Recharts to visualize task trends and technician utilization for data-driven shift planning
- Orchestrated automated unit and regression tests into GitHub Actions CI/CD, cutting down production rollbacks
- Implemented feature flags and staged deployments, enabling zero-downtime releases in an FDA-regulated production environment.

Exinous Technologies India Pvt Ltd **Sep 2022 - Nov 2023**
Software Development Engineer **Mysore, India**
- Optimized a React-based healthcare website with code-splitting, image compression, and API batching, shortening load times by 25% and increasing patient booking conversions by 30%
- Revamped the FAQ, About, and Blogs pages, improving layout stability and reducing UI shift issues by 10%
- Developed inventory modules for an ERP system using Vue + TypeScript, adding reusable components that cut frontend rework by 20%
- Added Cypress E2E and API checks for key flows, collaborating with the QA team automate regressions and reduce manual testing effort by 25%

Bosch Global Software Technologies **Jun 2021 - Sep 2022**
Associate Software Engineer **Bangalore, India**
- Improved embedded and signal-processing features by tuning radar classification logic and optimizing UI redraw paths, reducing false detections by 25% and improving UI frame rates by 30%, working in an Agile sprint-based development environment.
- Owned migration of 15K+ lines of legacy Python 2 systems to Python 3, improving runtime stability and long-term maintainability in a production
- Implemented firmware update and logging workflows, contributing to multiple Bosch Measure 200 releases with zero critical production issues.

PROJECTS

LeaveNow | Next.js, NestJS, Spring Boot, PostgreSQL, Redis, Docker **Link**
- Architected an API-first microservices system (Spring Boot + NestJS) supporting multimodal routing using RESTful services and domain-driven design principles
- Implemented event-driven service interactions and Redis caching, reducing routing latency by 35% while maintaining system reliability
- Designed fault-tolerant workflows using Resilience4j to handle partial service failures without degrading user experience
- Built a modular Next.js frontend consuming scalable APIs, deployed via Docker and CI/CD pipelines with automated testing

Realtime Weather Dashboard Application | Flask, MEAN, Swift, GCP **Link**
- Built a cross-platform web application (Angular, Node.js, iOS Swift) integrating third-party REST APIs for geolocation-based forecasting
- Implemented MongoDB-backed caching and API orchestration, reducing redundant calls by 30% and improving response times to sub-150ms
- Deployed to GCP with autoscaling and monitoring, achieving 99.9% uptime in a cloud-native environment

Secure EHR AI | React, FastAPI, PostgreSQL, AWS **Link**
- Built a secure EHR system with strict role-based access controls for doctor, patient, and auditor roles, ensuring clear permission and data access
- Implemented encrypted audit logging with RSA/AES and SHA-256 hash-chaining, achieving 100% tamper detection and providing HIPAA-compliant, verifiable record trails
- Integrated the RAG assistant that improved clinical information lookup by 50%, enabling instant, compliant retrieval of patient summaries and trends

CERTIFICATIONS

AWS Cloud Practitioner | OCI AI Foundations | ML & AI by NASSCOM | Certified Scrum Master | Agentic AI for Developers |
Google AI Essentials | Google Universal Analytics Essential