NIKHIL GOVINDARAJU

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EDUCATION

University of Southern California, Viterbi School of Engineering — Los Angeles, CA
Master of Science in Computer Science | GPA: **3.78/4.0** — Jan 2024 - Dec 2025
Coursework: Algorithms, Database Systems, Web Technologies, Information Retrieval, ML for Data Science, Applied Cryptography, Advance Mobile Devices & Game consoles

JSS Science and Technology University — Mysore, India
Bachelor of Engineering in Information Science and Engineering | GPA: **9.01/10.0** — Aug 2017 - July 2021
Coursework: Data Structures, Data Mining, Operating Systems, Distributed Computing, Computer Networks, Computer Organization

SKILLS

Languages:	Python, Java, JavaScript (ES6+), TypeScript, C++, Swift, SQL, C#
Frontend:	React.js, Next.js, Angular, Tailwind CSS, Bootstrap, SwiftUI
Backend:	Spring Boot, Node.js (Express), REST APIs, Microservices, Kafka, FastAPI, Flask
Cloud/DevOps:	AWS (EC2, S3, RDS, Cognito), GCP, Docker, Kubernetes, GitHub Actions, CI/CD, OpenTelemetary
Data and Testing:	PostgreSQL, MongoDB, MySQL, DynamoDB, Pytest, Unit Testing, Cypress
Other Tools:	System Design, Performance Optimization, Postman, Jira, Figma, Agile/Scrum

PROFESSIONAL EXPERIENCE

Jubilant HollisterStier LLC — Spokane, WA
Software Engineering Intern — May 2025 - Aug 2025
- Delivered a cloud-native analytics platform (Next.js, Node/Express, AWS RDS/PostgreSQL) surfacing real-time KPIs; cut manual reporting time by 50% and eliminated 75% of planning errors
- Engineered normalized schemas and REST APIs with server-side caching, streamlining data access and boosting scheduling throughput by 65%
- Orchestrated automated unit and regression tests into GitHub Actions CI/CD, strengthening release confidence and limiting rollbacks by 30%
- Rolled out feature flags and staged deployments to ensure seamless production updates with minimal disruptions

Exinous Technologies India Pvt Ltd — Mysore, India
Software Development Engineer — Sep 2022 - Nov 2023
- Optimized a React-based healthcare platform with code-splitting, image compression, and API batching; shortened load times by 25% and lifted patient booking conversions by 30%
- Contributed modular ERP enhancements in Vue/TypeScript; accelerated delivery cycles by 25% through shared UI libraries and contract-tested API clients
- Authored Cypress end-to-end test suites and API validation flows, expanding regression coverage and lowering production defects by 20%

Bosch Global Software Technologies — Bangalore, India
Associate Software Engineer — June 2021 - Sep 2022
- Engineered a material-classification module for radar signals to distinguish metal, plastic, and live wires, reducing false detections by 25%
- Optimized embedded UI rendering through scan-view redraw refactors, boosting frame rates by 30% and minimizing lag during scans
- Implemented a firmware update and logging system (SD/USB with rollback + integrity checks), strengthening diagnostics and enabling safe in-field upgrades

PROJECTS

LeaveNow – *Intelligent Commute Planner*
- Designed a microservices architecture integrating calendar, maps, and weather APIs to deliver real-time "leave-by" notifications with SLA-backed replanning
- Applied resilience techniques (timeouts, retries, circuit breakers) with Redis caching, cutting API load by 60% while sustaining latency <300 ms
- Constructed fault-tolerant Kafka pipelines with DLQs and idempotent consumers, ensuring reliable, event-driven commute planning
- Released Dockerized services on GCP/Vercel with health probes and Prometheus dashboards for latency and cache metrics

Realtime Weather Monitoring Application - *Scalable Location-Based Weather Analytics Dashboard*
- Created a Node.js + Angular dashboard integrating Tomorrow.io and Google Maps APIs for accurate forecasts
- Optimized MongoDB caching to reduce redundant API calls by 50% and achieve sub-150 ms response times
- Deployed on GCP with autoscaling and monitoring to maintain 99.9% uptime under peak traffic
- Implemented interactive HighCharts visualizations enabling multi-day trend analysis and weather insights

Secure EHR AI – *AI Powered Cloud-Based Health Records Platform*
- Architected a HIPAA-compliant audit system with AES/RSA encryption and SHA-256 hash-chaining, ensuring data privacy and tamper-evident medical records
- Enabled secure role-based access (doctor, patient, auditor) using Supabase key storage, aligning with real-world clinical workflows
- Integrated an AI assistant for clinicians to summarize logs, answer patient questions, and propose next steps, trimming lookup time by 60%

CERTIFICATIONS

AWS Cloud Practitioner | **OCI AI Foundations** | **ML & AI by NASSCOM** | **Certified Scrum Master** | **Agentic AI for Developers**