

NIKHIL GOVINDARAJU

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Master's in Computer Science student at USC with 2+ years of experience developing production-grade full-stack applications using **React, Java, Python, Node.js, FastAPI/RESTful APIs**, and **AWS** with **PostgreSQL** and **MongoDB**. Actively seeking Fall 2025 SDE co-op and Jan 2026 full-time roles to build robust, high-performance software solutions across diverse tech stacks.

EDUCATION

University of Southern California, Viterbi School of Engineering

Los Angeles, CA

MS 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

B.E in Information Science and Engineering, GPA: **9.01/10.0**

Aug 2017 - July 2021

Coursework: *Data Structures, Data Mining, Operating Systems, Software Engineering, Distributed Computing, Computer Networks, Computer Organization*

SKILLS

Languages: Python, JavaScript (ES6+), TypeScript, C++, C, Java, Swift, Dart

Frontend Dev: HTML5, CSS3, React.js, Next.js, Angular, Tailwind CSS, Bootstrap, Flutter, SwiftUI, UIKit, Figma

Backend Dev: Node.js, Express.js, FastAPI, Flask, REST APIs, Microservices, Spring Boot, Prisma, SQL

Cloud & DevOps: AWS (EC2, S3, RDS, Cognito, Glue), GCP, Docker, Kubernetes, Git, GitHub Actions, CI/CD, Kafka, CloudFormation

Databases Other Tools: PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, Unit Testing, Pytest, Postman, Agile/Scrum, Jira

Machine Learning: TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV, Pandas, NumPy, Matplotlib, Seaborn

PROFESSIONAL EXPERIENCE

Jubilant HollisterStier LLC

Spokane, WA

Software Engineering Intern

May 2025 - Present

- Architected **cloud native** TimeStudy, a Next.js + Node.js analytics platform on **AWS** with **JWT-based role access**, enabling real-time task insights that boosted **production efficiency** by **50%**.

- Designed **relational schemas** and built **secure REST APIs** with authentication, enhancing multi-site data access and improving **scheduling accuracy** by **75%**.

- Developed **unit-tested** backend services and dashboards, enabling role-secured capacity forecasting with **40% greater precision** and readiness for ML integration.

Exinoux Technologies India Pvt Ltd

Mysore, India

Software Development Engineer

Sep 2022-Nov 2023

- Revamped Navipoint Health's website using React.js and **SEO best practices**, achieving **30%** more **patient conversions** and **25%** **faster load times**.

- Engineered **reusable and modular** Vue.js and TypeScript ERP components for a semiconductor client, **reducing maintenance** by **30%** and accelerating **multimodule delivery** by **25%** through design standards and team **code reviews**.

- Integrated** frontend modules with **backend APIs** for health kit workflows, enabling registration, tracking, and results retrieval with **20% improved efficiency**, collaborating via Git and agile sprints.

Bosch Global Software Technologies

Bangalore, India

Associate Software Engineer

June 2021-Sep 2022

- Engineered diagnostic utilities in Python and Shell for embedded Linux systems on Bosch D-tect 200, enabling real-time health checks and boosting **system performance** by **25%**.

- Enhanced C++ firmware modules for sensor data processing and rendering logic, leading to faster **UI responsiveness** across deployed industrial units.

- Automated configuration workflows using **GitLab CI/CD** and scripting tools, reducing deployment time by 30% and significantly **increasing release reliability** in production environments.

PROJECTS

Realtime Weather Monitoring Application (*Scalable Location-Based Weather Analytics Dashboard*)

Angular · Node.js · Express · MongoDB · Swift · UI Kit · HighCharts · Tomorrow.io API · Google Geocoding API · Google Cloud

- Built a real-time, geo-personalized weather app using Tomorrow.io and Google APIs, serving 1K+ users with low latency.

- Engineered a responsive Angular frontend and integrated MongoDB for structured data caching, cutting redundant API calls by 50% and improving load times.

- Deployed the full-stack system on Google Cloud with auto-scaling, achieving 99.9% uptime, and built a synchronized iOS client (Swift, UIKit) to support seamless cross-device access.

Secure EHR AI (*AI-Powered Cloud-Based Health Records Platform*)

React · FastAPI · PostgreSQL · Redis · AWS · Docker · OpenAI API · Supabase

- Architected a secure full-stack EHR platform with role-based access control (RBAC) and automated Dockerized deployments on AWS, ensuring scalable, compliant infrastructure.

- Implemented end-to-end audit logging with RSA, SHA-256, and AES-128 encryption, reducing security vulnerabilities and cutting incident reports by 40%.

- Integrated an OpenAI-powered chatbot with dynamic Supabase queries, enabling intelligent self-service and significantly reducing manual user support overhead.

Distributed Order Fulfillment Platform (*Amazon-like Logistics & Forecasting System*)

Java Spring Boot · Apache Kafka · Node.js · MongoDB · Docker · Kubernetes

- Architected a scalable microservices platform emulating Amazon's fulfillment flow, using Kafka for event-driven communication and resilience.

- Implemented predictive restocking microservice in Node.js, using demand signals to auto-scale inventory allocation in Kubernetes clusters.

- Simulated real-world logistics operations with circuit breakers, DLQs, and container orchestration, showcasing fault-tolerant design at scale.

CERTIFICATIONS

AWS Cloud Practitioner | OCI AI Foundations | ML & AI by NASSCOM | Certified Scrum Master