

NIKHIL GOVINDARAJU

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EDUCATION

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Master's of Science in Computer Science [GPA: 3.67/4] January 2024-Present
Coursework: *Analysis of Algorithms, Database Systems, Web Technologies, Information Retrieval and Web Search Engines*
JSS Science and Technology University Mysore, India
Bachelor of Engineering, Information Science and Engineering [GPA: 9.01/10] August 2017-July 2021

SKILLS

Languages: Python, JavaScript, C, Swift, HTML, CSS
Frameworks: React, Angular, Flutter, Node.js, Flask, Express.js, SwiftUI, Docker, Numpy, PyTorch
Technologies: GCP, MongoDB, GraphQL, Webpack, Postman, OCI, AWS, Git

EXPERIENCE

Exinoux Technologies India Pvt Ltd [Sep 2022-Nov 2023] Mysore, India
Software Development Engineer in Test

Designed and executed comprehensive functional test procedures and automated test suites, reducing diagnostic timelines by 30% and improving product accuracy by 25%. Developed and deployed advanced test strategies, conducting detailed design specification reviews enhanced product functionality and testability by 20%.

Tech Stack: Python, JavaScript, TypeScript, Cypress, Chai, Mocha, Git, Postman and RESTful APIs

Bosch Global Software Technologies [June 2021-Sep 2022] Bangalore, India
Associate Software Engineer

Performed software testing and automated scripting using Python and shell scripting for Linux-embedded projects, including system and platform testing for 2D wall scanner "Dtect-200." Identified and documented bugs, actively participating in the Scrum process to enhance product quality, reducing critical code vulnerabilities by 15%.

Tech Stack: Pytest, GitLab, SVN, OBS, Apertis-Pro VM, Serial Com Putty and Codebeamer

Robert Bosch Engineering and Business Solutions [March 2021-June 2021] Bangalore, India
Project Trainee

Designed and executed automation tests for the Android mobile application "Bosch MeasrOn App" using Java, leveraging tools such as Appium, Maven, Android Studio, and UI Automator

PROJECTS

Realtime Weather Monitoring Application [MEAN Stack and iOS App Development]

- Engineered a **responsive** web application using **Angular** and **TypeScript** frontend with **Node.js/Express** backend, integrating **MongoDB** for data persistence and real-time weather monitoring and location services, featuring interactive weather visualization using HighCharts.
- Developed a complementary native **iOS mobile application** using **Swift** and **UIKit**, implementing location-based services and weather data visualization, with **RESTful API** integration for seamless data synchronization with the web platform.

Route It, Smart Travel Recommendation System

Architected a **scalable cross-platform** mobile and web application using **Flutter** and **Dart** for the frontend, implementing real-time route optimization algorithms and integrating Google Maps API for location services, with **Firebase Authentication** for secure user management. Implemented a distributed backend system using Cloud **Firestore**, enabling real-time data synchronization across devices, push notifications for travel updates, and efficient data caching for offline functionality.

Sequence Alignment using Dynamic Programming and Divide and Conquer

Implemented two solutions for the Sequence Alignment problem: a basic approach using Dynamic Programming and a **memory-efficient** version combining Dynamic Programming with Divide-and-Conquer. Optimized performance by reducing memory usage and tested both solutions against provided datasets, achieving accurate and efficient results.

CERTIFICATIONS

- Machine Learning and Artificial Intelligence** by NASSCOM
- AWS, AWS Going Cloud Native** by Coursera
- OCI Certified AI Foundations Associate** by Oracle
- AWS Certified Cloud Practitioner** by AWS
- Certified Scrum Master** by Scrum Alliance