

# Nithish SureshBabu

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## Summary

Software Engineer specializing in full-stack development and scalable system design, with a focus on AI integration and real-time systems. Recognized for delivering impactful projects, including multi-tenant architectures and an AI-powered fish encyclopedia app that boosted user engagement by 30%. Proficient in Go, Python, and AWS, and eager to leverage these skills to drive technological innovation. Committed to contributing to dynamic teams to achieve leading-edge advancements.

## EDUCATION

### University of Michigan

*Master of Science, Computer and Information Science* (GPA: 3.8)

**Aug 2023 - Apr 2025**

*Michigan, USA*

### Anna University

*Bachelor of Technology, Computer Science and Engineering* (GPA: 3.4)

**Jul 2018 - May 2022**

*Chennai, INDIA*

## EXPERIENCE

### Square Results

*Software Development Engineer - GenAI*

**Aug 2025 - Present**

- Architected a multi-tenant centralised backend with Supabase, unifying authentication and user management across multiple company websites, reducing login friction by 30% and enabling scalable access for thousands of users.
- Leveraged Supabase's Row-Level Security and real-time capabilities to integrate disparate site user bases into a single, secure login system, ensuring data isolation and seamless cross-site functionality.

### Aviation Insurance Startup – Remote

**Jul 2025 - Jul 2025**

*Software Developer*

- Developed TypeScript schemas and data integration logic for 200+ aviation insurance endorsements, automating .docx policy document generation with TypeBox validation and templating tools.
- Enhanced premium calculation and document population processes, integrating with external services to ensure accurate, compliant policy issuance for a scalable insurance platform.

### Central Marine Fisheries Research Institute

**Jan 2025 - Jul 2025**

*Software Developer*

- Developed and maintained full-stack web and mobile applications using Vue.js, Flutter, and Go, enabling over 100 researchers and students to access real-time marine data even under low connectivity conditions.
- Implemented robust data synchronization protocols that automatically updated databases as connectivity was re-established, ensuring continuous and reliable data access.

### University of Michigan - Deep Fake Research Lab

**Sep 2024 - Dec 2024**

*Research Assistant - GenAI (Volunteer)*

- Collaborated with academic experts to design and validate deepfake detection models using TensorFlow, achieving 88.37% accuracy by benchmarking 8 models across diverse Gen-AI image generation datasets.
- Refined model performance using advanced machine learning techniques, contributing to research advancements in AI-driven security

## PROJECTS

### College Event Management App

**Jul 2025 - Present**

*Personal Project*

- Streamlined event coordination for college students by building a Event Hosting full-stack web application using Vue.js, Go with Chi, and PostgreSQL with real-time group chat creation, achieving positive feedback from 20+ beta testers and boosting campus engagement.

### Chat Application

**Jan 2024 - Apr 2024**

*Advanced Operating System Course*

- Designed a scalable chat platform for an Advanced OS course project inspired by Discord using Go, WebSockets, and implementing consistent hashing and rate limiting across 8 nodes, which enabled real-time communication for 30+ testers and demonstrated potential to scale to 2,500+ users. deployed on AWS with Docker and CI/CD, supporting clients with low as 10ms latency and 40% faster deployment.

### Tweets Sentiment Analysis

**Feb 2024 - May 2024**

*Personal Project*

- Developed a high-performance sentiment analysis engine for an Introduction to Big Data course by leveraging Llama-2, LangChain, Apache Spark, and AWS to process 10,000+ tweets/hour with 92.2% accuracy, delivering real-time insights via a responsive dashboard and reducing processing time by 30%.

## SKILLS

- Languages:** Go, Python, JavaScript, TypeScript, C++
- Full Stack:** Go, Chi, FastAPI, Tailwind CSS, RESTful APIs, Flutter, React Native, Vue.js, Next.js, Supabase
- DevOps & Cloud:** AWS, Google Cloud, Docker, Kubernetes, Git, CI/CD Pipelines, Agile Methodology
- AI/ML:** PyTorch, TensorFlow, LangChain, AWS Rekognition
- Databases:** PostgreSQL, DynamoDB, SQLite, S3, Redis
- Systems:** System design, Operating System, Performance optimization, debugging, large-scale design, Distributed Systems, Multi-threading, Networking Protocols

## AWARDS AND RECOGNITIONS

- People's Choice of the Year, Google Developer's Club (GDC), 2025:**For developing an AI Insurance Quoting Call Agent with natural speech and advanced conversation handling.
- Top 80 in National Wide - India, Vishwakarma Award, 2020:**Recognized for innovative technical project in a nationwide competition.