

Nithish SureshBabu

Lynnwood, WA | +1 (206) 226-8935 | nithish952001@gmail.com | [linkedin-nithish](https://www.linkedin.com/in/nithish) | [nithish-95](https://github.com/nithish-95) | [portfolio](#)

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

Aug 2025 - Present

Software Development Engineer - GenAI

- 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 TextBox 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.