

# Nithish Suresh Babu

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## SUMMARY

Software Development Engineer - GenAI with expertise in full-stack development and AI integration. Proven record delivering multi-tenant platforms, building AI detection models achieving 88% accuracy, and designing robust data synchronization for large user bases. Seeking to apply Go, Python, and TypeScript skills to drive innovative, scalable software solutions.

## EDUCATION

### UNIVERSITY OF MICHIGAN

*Master's in Computer and Information Science*

**Aug 2023 - Apr 2025**

*Michigan, USA*

- **GPA:** 3.9

### ANNA UNIVERSITY

*Bachelor's in Computer Science and Engineering*

**Jul 2018 - Jul 2022**

*Chennai, IN*

- **GPA:** 3.4

## OPEN SOURCE CONTRIBUTIONS

### GOOGLE | [go-github](#)

#### CONTRIBUTOR

- Engineered and implemented new API methods to manage **GitHub Enterprise App repository installations**, successfully enhancing the functionality of the widely-used library.
- Authored production-quality **Go code** and comprehensive unit tests to guarantee the reliability and stability of new library features.
- Collaborated with maintainers through the Pull Request (PR) review process, refactoring code to align with established project conventions and Go best practices.

## EXPERIENCE

### SQUARE RESULTS

*Software Development Engineer - GenAI*

**Aug 2025 - Present**

*Seattle, WA*

- 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, resulting in data isolation and seamless cross-site functionality.

### CLASSA.AI

*Software Developer - Contract*

**Jul 2025 - Aug 2025**

*Seattle, WA*

- Delivered complete TypeScript schema library and data integration system for 200+ aviation insurance endorsements, automating .docx policy generation with TypeBox validation.
- Enhanced premium calculation and document population processes, integrating with external services to ensure accurate, compliant policy issuance for a scalable insurance platform.

### CENTRAL MARINE RESEARCH INSTITUTE

*Full Stack Engineer*

**Jan 2025 - Jul 2025**

*Remote, WA*

- Developed full-stack applications using Vue.js, Flutter, and Go, serving 100+ researchers with real-time marine data access in low-connectivity environments.
- Built an offline-first system with automatic sync for preserving and restoring user data during connection loss, ensuring consistent access to critical marine research data.

### UNIVERSITY OF MICHIGAN

*Research Assistant -GenAI DeepFake*

**Sep 2024 - Dec 2024**

*Dearborn, MI*

- Collaborated with academic experts to design and validate deepfake detection models using TensorFlow, achieving 88.37% accuracy by benchmarking eight models across diverse GenAI image generation datasets
- Architected a full-stack Next.js platform that deployed the model for public testing, used server-side API routes for real-time inference, and designed a SQLite3 schema to capture user feedback, which enabled iterative model retraining and improved detection performance

## SKILLS

- **PROGRAMMING LANGUAGES:** Go, Python, TypeScript, JavaScript, C++, HTML5/CSS3, Dart
- **LIBRARIES/FRAMEWORKS:** Go Chi, Fast-API, Tailwind-CSS, shaden/ui, Flutter, React/React Native, Node.js, Next.js, Vue.js, RESTful APIs, TanStack\*
- **TOOLS / PLATFORMS:** Docker, Git, Github, AWS, Kubernetes, Google Cloud Platform, Postman, LangChain, Ollama, PyTorch-, TensorFlow
- **DATABASES:** PostgreSQL, SQLite3, Supabase, DynamoDB, Redis, AWS RDS, AWS S3, NoSQL

## Achievements

- **Peoples Choice Of The Year 2025 (Googles Cloud Developers):** Designed and Developed AI Voice agent that Automates the Insurance Quoting via Phone calls