

# NISAL MALLAWAARACHCHI

+94 74 134 3437 ✉ [nisalmallawarachchi@gmail.com](mailto:nisalmallawarachchi@gmail.com)  [NisalMallawaarachchi](https://github.com/NisalMallawaarachchi)  [NisalMallawaarachchi](https://www.linkedin.com/in/NisalMallawaarachchi)

 [Portfolio](#) |  [Blog](#)

## SKILLS

- **Backend:** Node.js (Express) | Java (Spring Boot) | Python
- **Frontend:** React | Next.js | TypeScript | JavaScript | Tailwind CSS
- **Other Programming Languages:** Java | Python | PHP | C | C++
- **Databases:** MongoDB | MySQL | PostgreSQL | Oracle | Neon
- **ORM/BaaS:** Prisma | Supabase
- **Tools and Technologies:** n8n | AWS | EC2 | S3 | Docker | Git/GitHub | Postman | Redux Toolkit | Odoo | JWT | OAuth2
- **Soft Skills:** Leadership | Team Collaboration | Fast Learner

## PROFESSIONAL SUMMARY

Software Engineer with strong backend expertise and leadership experience in MERN-based enterprise systems. Promoted to Assistant Team Lead within 2 months, managing a 40+ member cross-functional team spanning backend, frontend, QA, DevOps, and maintenance. Experienced in system design, database optimization, authentication, automation, and scalable architecture. Actively involved in research-driven development and modern DevOps practices using Docker and AWS.

## PROFESSIONAL EXPERIENCE

### Gamage Recruiters (Pvt) Ltd

Software Engineer Intern | Assistant Team Lead

Panadura

Aug 2025 – Feb 2026

- Promoted to Assistant Team Lead, coordinating backend, frontend, QA, maintenance, and DevOps teams within a 40+ member cross-functional engineering unit
- Led system design and architecture discussions, applying design patterns and Clean Architecture to improve maintainability
- Designed and implemented scalable backend architectures using Node.js, Express.js, MongoDB, and MySQL for multiple production systems
- Managed deployment and CI/CD workflows using Docker and AWS, and built n8n automations to streamline ERP form submissions and internal processes
- Optimized database schemas and queries, reducing API response latency by up to 30% and improving system performance

### Tech Stack:

MERN Stack, Node.js, Express.js, MongoDB, MySQL, React, React Native, Python, Docker, AWS, n8n, Odoo

## PROJECTS

### VeloPath | Intelligent Bicycle Navigation System | Flutter, Node.js, ML, OpenStreetMap, Supabase, PostgreSQL

[\[Live Demo\]](#) | [\[GitHub Repo\]](#)

- Architected an intelligent bicycle navigation system combining ML-driven hazard detection, confidence-based crowdsourced verification with temporal decay, and multi-objective routing to dynamically adapt to changing road conditions
- Built a gamified POI discovery mechanism and supported full-stack mobile development, evaluating system effectiveness through field deployments and route-based experiments

### Expense Tracker AI | Modern AI-Powered Expense Tracking Web App | Next.js 15, Tailwind CSS, Neon, Clerk, PostgreSQL, OpenRouter, Vercel

[\[Live Demo\]](#) | [\[GitHub Repo\]](#)

- Implemented secure multi-provider authentication using Clerk (Google, GitHub, email) and built real-time dashboards with analytics, charts, and dark/light mode support, improving user onboarding flow and session continuity
- Integrated AI-driven expense categorization and financial insights using OpenRouter, enabling automated category suggestions and personalized spending recommendations, reducing manual categorization effort and improving data accuracy

### Horizon Homes | Full Stack Real Estate Web App | MERN Stack, Tailwind CSS, Redux Toolkit, JWT, Google OAuth2, Render

[\[Live Demo\]](#) | [\[GitHub Repo\]](#)

- Delivered a secure full-stack MERN real estate platform with JWT + Google OAuth authentication and protected routes, improving user security and session reliability
- Built advanced listing search and filtering using optimized MongoDB queries (sorting, limits, keyword search), enabling faster and more relevant property discovery

## EDUCATION

### Sri Lanka Institute of Information Technology (SLIIT)

BSc (Hons) in Information Technology

Cumulative GPA: 3.21/4.0

Malabe, Sri Lanka

Expected June 2026