AMITH MALINGA

Software Engineer | Full-Stack Developer

B.Sc. (Hons) Information Technology (Undergraduate) · University of Moratuwa
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Professional Summary

Software Engineer with 1+ year of industry experience and 3+ years of academic and project experience in designing, developing, deploying, and maintaining scalable software solutions, while maintaining a 3.6+ GPA. Strong background in backend engineering using Node.js, Spring Boot, .NET, and Python, with additional experience in JavaScript, TypeScript, REST APIs, microservices, databases, and cloud-based applications. Experienced in DevOps and cloud infrastructure practices including Docker, AWS, CI/CD pipelines, Git workflows, and production deployments. Contributed to software solutions serving Nordic region clients with GDPR-compliant systems, high-quality engineering standards, and integrations including Stripe, shipping and logistics services, AI-powered features, and OpenAI APIs. Familiar with the complete Software Development Lifecycle (SDLC), Agile/Scrum methodologies, testing, debugging, performance optimization, and cross-functional collaboration.

Experience

Associate Software Engineer *Feb 2026 – Mar 2026*

Software Engineer Intern *Feb 2025 – Feb 2026*
Irusri Group AB

- Developed RESTful APIs and microservices using Node.js (NestJS, Express), TypeScript, Spring Boot, and .NET; built event-driven architectures with escrow payment workflows, order management, and logistics integrations across multiple production platforms
- Reduced infrastructure costs by ~20% by migrating MSSQL databases, Azure AD B2C, and Azure-hosted services into AWS (EC2, Lambda, S3) environments
- Led a full system modernisation project: migrated a legacy .NET backend to Node.js, performed root cause analysis on existing defects, and rebuilt core notification and activity tracking components
- Developed scalable publishing backends with subscription management, multilingual content workflows, and AI-driven summarisation using OpenAI API
- Managed DevOps and cloud operations using Docker, GitHub Actions CI/CD, Linux/VPS, and Nginx; owned end-to-end component lifecycle from architecture through production deployment
- Integrated Stripe, shipping/logistics platforms, OAuth providers (Google, Apple), and OpenAI APIs into live production systems
- Contributed to code reviews, technical documentation, and knowledge-sharing sessions on Git, GraphQL, and software quality practices; mentored junior engineers
- Delivered 8+ projects across 3+ concurrent workstreams on time, adhering to GDPR-compliant design standards and high engineering quality benchmarks
- Technology Stack: **Node.js, NestJS, Express.js, Spring Boot, .NET, TypeScript, Python, MySQL, PostgreSQL, MongoDB, MSSQL, AWS, Docker, GitHub Actions, REST APIs, GraphQL, OpenAI APIs, Selenium, Cypress, Cucumber, SonarQube, Git, Agile**

Personal & Academic Projects

ExamMaster – Full-Stack EdTech Assessment Platform - *Next.js, NestJS, TypeScript, Prisma, PostgreSQL* | GitHub

- Full SDLC delivery: designed monorepo architecture (Turborepo), developed NestJS REST APIs and Next.js student app, conducted integration testing, and documented all system specifications. JWT Auth, Prisma + PostgreSQL relational modelling, analytics and leaderboard features.

ML-Based Landslide Risk Prediction (2026) - *Python, Scikit-learn, Random Forest, SHAP, Pandas* | GitHub

- End-to-end ML pipeline with feature engineering, cross-validation (~84% accuracy), and SHAP-based root cause analysis for model transparency; documented for REST API deployment as a real-time alerting service.

Customized HRM System (2023–2024) - *ASP.NET Core MVC, MSSQL, EF Core, Bootstrap* | GitHub

- Team Lead on industry-sponsored project (Infosoft Lanka Pvt Ltd); designed and delivered attendance, leave, appraisal, and employee management modules with REST APIs, technical documentation, and VPS deployment - full project ownership.

Interactive Full-Stack Developer Portfolio (2026)- *Next.js, TypeScript, Tailwind CSS, Serverless APIs* | GitHub | View Site

- Developed a modern full-stack portfolio application using Next.js with SSR and App Router for optimized performance and seamless navigation.

- Engineered serverless API routes to handle secure contact form submissions and integrated an AI-powered chatbot for real-time user interaction.
- Designed responsive, interactive UI components with Tailwind CSS, focusing on usability, performance, and accessibility.

Financial Freedom Expert System (2025) - *SWI-Prolog, HTTP/JSON APIs* | GitHub

- Rule-based advisory system with explainable inference engine; built-in REST API delivering structured JSON reports. Demonstrates structured problem decomposition and software documentation practices.

LLM-Agri-Bot – AI Agricultural Assistant (2025) - *Python, Flask, Groq LLaMA 3.3, HuggingFace, Open-Meteo API* | GitHub

- Multilingual, voice-enabled AI assistant integrating LLM with real-time weather API context - multi-service orchestration with clean API design and Python backend.

Brain Link – Educational Mobile App (2024) - *React Native, Expo* | GitHub

- Mobile learning platform with quizzes, educational articles, and interactive modules.

Technical Skills

Languages: TypeScript, JavaScript, Java, Python, C, strong foundations in OOP, algorithms, and clean code
Backend & Frameworks: Node.js (NestJS, Express), Spring Boot, ASP.NET Core MVC, SOLID principles
APIs & Integration: RESTful APIs, GraphQL, WebSockets, Socket.IO, Webhooks, Swagger/OpenAPI
Databases: MySQL, MSSQL, PostgreSQL, MongoDB, Firebase, SupaBase; Prisma ORM
Testing & QA: Selenium, Cypress, Cucumber (BDD); SonarQube; automated test pipelines via GitHub Actions CI/CD
DevOps & Cloud: AWS (Lambda, EC2, S3), Docker, GitHub Actions CI/CD, VPS, Nginx - Windows & Linux env's
Version Control: Git, GitHub - branching strategies, pull requests, code review workflows, project management
Auth & Security: JWT, RBAC, OAuth 2.0, Google & Apple Sign-In, reCAPTCHA
AI & Data: OpenAI API, Claude API, Prompt Engineering, GenAI; Scikit-learn, Random Forest, SHAP, Pandas, NumPy
Frontend: React, Next.js, React Native / Expo, Tailwind CSS
Tools: Jira, Postman, Figma, Stripe, LaTeX

Education

University of Moratuwa *May 2022 – Present*
B.Sc. (Hons) in Information Technology CGPA**: 3.6 (Up to L3S2)**
Dharmasoka College, Ambalangoda *Jan 2011 – Dec 2019*
G.C.E A/L (Physical Science): Combined Mathematics (A), Chemistry (A), Physics (B) - Z-score: 1.8

Certifications

- AWS Cloud Practitioner Essentials - Certification (Amazon Web Services)
- AWS Educate Getting Started with Security - Training Badge (Amazon Web Services, Apr 2026)
- AWS Introduction to AWS DevOps Agent – Certification (Amazon Web Services, Apr 2026)
- AWS Educate Introduction to Generative AI - Training Badge (Amazon Web Services, Mar 2026)
- AWS Educate Machine Learning Foundations - Training Badge (Amazon Web Services, Mar 2026)
- Gemini Certified Student (Google for Education, Dec 2025 – Dec 2028)

Research and Publications

- A Critical Review and Literature Review on "Pattern Recognition in Cryptocurrency Markets Using Machine Learning" | 2025 | Access Paper
- Conducting undergraduate FYP research on AI-based early-symptomatic tea leaf disease detection for Sri Lankan tea plantations using computer vision and deep learning. | Present

Extracurricular Activities

Organizing Committee: MonsterMash (Rotaract UoM) · IEEE Student Branch Member · Department Facilitator – EXMO Exhibition · FIT Sixes Cricket (UoM, 2023–2025)

References

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