

HASHAN PERERA

Software Engineer | Angular | React | .NET | NestJS | AWS

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PROFILE

Software engineer with 3+ years of experience building, supporting, and deploying production applications across .NET, Angular, React, NestJS, MongoDB, SQL Server, and AWS. Strong foundation in OOP, SOLID principles, REST API design, secure application development, automated testing, Git workflows, and CI/CD. Experienced in .NET debugging, production root-cause analysis, and enterprise SAP B1 integrations. Uses AI-assisted development tools for coding, debugging, refactoring, and quality improvement, and contributes within Agile engineering teams.

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript; working knowledge of Java and Python.

Engineering: OOP, SOLID, design patterns, data structures and algorithms, REST API design.

Backend: ASP.NET / .NET, NestJS, Express.js.

Frontend & mobile: Angular, React, Next.js, React Native (Expo); Flutter, GetX, Hive.

Databases: MS SQL Server, MySQL, PostgreSQL, MongoDB.

APIs & security: RESTful APIs, GraphQL, WebSockets, JWT, Auth0, RBAC.

Cloud & DevOps: AWS EC2, ECR, ECS, S3, CloudWatch; Docker, GitHub, GitLab, GitHub Actions, CI/CD, Git branching.

Testing & quality: xUnit, Jest, Jasmine, Karma, Postman, Swagger, SonarQube, unit testing.

ERP & CMS: SAP Business One (Service Layer), Sitecore XP.

AI-assisted development: GitHub Copilot, Claude Code, Cursor, Antigravity, Codex, LLM prompt design, agentic development, refactoring, test generation.

PROFESSIONAL EXPERIENCE

Software Engineer | IGT1 Lanka - Sitecore

May 2026 - Present

- Investigate incidents across application code, .NET assemblies, SQL Server data, configuration, and runtime behavior.
- Implement and validate code-level fixes with a focus on regression risk and production stability.
- Work within structured engineering, troubleshooting, and customer communication practices.

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Professional experience continued

DIGITUSTEC

Software Engineer

July 2025 - April 2026

Meeting Minutes Platform

Angular | NestJS | MongoDB | Docker | Auth0 | AWS

Led end-to-end development as Lead Developer for a three-engineer team, defining Angular architecture, project structure, CI/CD workflows, and regular code reviews.

- Built responsive meetings, tasks, and approvals modules, with optimized rendering, filtering, and pagination for large data tables.
- Architected the NestJS backend with role-based access control and Auth0 JWT authentication.
- Established Docker deployment standards and improved MongoDB queries using aggregation pipelines and indexing.

CRM System

Angular | NestJS | MongoDB | Auth0 | AWS

Lead and customer management, sales pipelines, and cold-calling workflows. Built reusable Angular components and used Antigravity with SonarQube for implementation, refactoring, and quality validation.

Quality Control System

Angular | NestJS | MongoDB | SAP B1 | AWS

Contributed SAP B1 ERP integrations for purchase orders, goods receipt notes, goods returns, production receipts, and inter-branch transfers in Zambia.

CYOL

Angular | NestJS | MongoDB | AWS

Delivered Farmer, Farm, Expense, Outgrower, Loan, and Crop Management modules, including database design, data seeding, APIs, and end-to-end integration.

<https://thecyol.com>

EARLIER ROLES

Associate Software Engineer | DigitusTec

January 2024 - June 2025

OUTGROWER Mobile App (Zambia) | Flutter | NestJS | MongoDB | Hive | SAP B1

- Solely developed the Outgrower mobile app, enabling field access for 500+ users.
- Used Flutter, GetX, and Hive for offline storage with queued synchronization and retry handling.
- Developed the NestJS backend and integrated the SAP B1 Service Layer.

Trainee Software Engineer | DigitusTec

June 2023 - December 2023

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Projects, education & research

FREELANCE & PROFESSIONAL PROJECTS

Patient Management System

Next.js | MongoDB | Vercel

Developed a live patient management system for Colombo University to manage digital medical records, with secure data handling and record management features.

InsureGeini

Final-year research project | Grade A | NBQSA selected

Developed an AI-powered insurance platform that automates claim processing by combining vehicle damage detection, fraud detection, customer sentiment analysis, and incident-to-policy mapping.

Technologies: AI, ML, NLP, OCR, YOLO, VGG16, DeepFace, CNN, Colab, Python, microservices, AWS ECS, Docker, CI/CD, GitHub, RabbitMQ.

EDUCATION

BSc (Hons) in Information Technology

2021 - 2025 | Sri Lanka Institute of Information Technology (SLIIT), Malabe

Specializing in Software Engineering | Second Class Upper

G.C.E. Advanced Level

2020 | Taxila Central College, Horana

Physical Science | 1B, 2C

G.C.E. Ordinary Level

2017 | Taxila Central College, Horana

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RESEARCH & PUBLICATIONS

Leveraging Multi Modal AI Capabilities to Enhance Vehicle Insurance Claiming Process

5th International Conference on Electrical, Computer and Energy Technologies (ICECET), Paris

2025 · Peer-reviewed InsureGeini system

Cognitive Complexity Analysis and Optimization Tool for Java

ResearchGate

Research publication
