

MALSHIKA INSARI

Software Engineer | Full-Stack Developer

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PROFESSIONAL SUMMARY

Final-year Software Engineering undergraduate with 6 months of industry experience developing scalable web and mobile applications in Agile environments. Experienced in full-stack development using React.js, Next.js, Node.js, TypeScript, PHP, .NET Core, and PostgreSQL, with hands-on experience in RESTful API development, database design, and Git-based workflows. Passionate about building high-quality software, solving real-world problems, and continuously learning modern technologies. Seeking a Software Engineer role to contribute technical expertise while growing within a collaborative engineering team.

TECHNICAL SKILLS

Languages: PHP, JavaScript, TypeScript, Java, Python, C#, Dart, HTML5, CSS3

Frontend: React.js, Next.js, Angular, React Native (Expo), Flutter, Tailwind CSS, Material UI

Backend: Node.js, Express.js, .NET Core, Spring Boot, RESTful APIs, JWT Authentication

Databases: MySQL, PostgreSQL, MongoDB, Firebase (Firestore / Realtime Database)

Tools & Platforms: Git, GitHub, Postman, AWS, Firebase Hosting, Android Studio, Docker (Basic), Linux (Basic)

Concepts: Object-Oriented Programming (OOP), API Integration, Database Design, Agile Development, Software Development Life Cycle (SDLC), CI/CD Fundamentals

AI / ML: TensorFlow, PyTorch, Machine Learning, Deep Learning

INTERNSHIP EXPERIENCE

Software Engineering Intern | Vertex Vision Solutions (PVT) LTD | Jul 2025 – Jan 2026

- Delivered features across three production applications involving full-stack web and mobile development within a remote Agile team.
- Developed RESTful APIs and Angular-based user interfaces for a supply chain management platform using .NET Core and PostgreSQL.
- Designed and implemented Flutter user interfaces and integrated real-time messaging functionality using Firebase Realtime Database and Spring Boot services.
- Independently designed, prototyped, and developed a customer loyalty mobile application using React Native, Firebase Authentication, Firestore, and Cloud Storage.
- Optimized PostgreSQL queries using indexing, pagination, and execution plan analysis to improve application performance.
- Maintained Git workflows, API documentation, and technical reports while collaborating with developers and stakeholders.

PROJECT EXPERIENCE

LuxeLoom Events — AI-Powered Event Planning Platform | Individual Project

Technologies: React.js, Node.js, Express.js, MongoDB

- Designed and developed a full-stack event planning platform featuring an AI-powered theme generator and vendor marketplace.
- Built real-time vendor availability management and dynamic budget tracking with live cost updates.
- Implemented scalable modular architecture to support future feature expansion and system maintainability.

LYLU — Second-Hand Marketplace | Dual Project

Technologies: React.js, Node.js, Express.js, MongoDB, Cloudinary

- Developed and deployed a full-stack marketplace platform supporting Google OAuth authentication, dynamic product listings, and responsive user experiences.
- Integrated Cloudinary for secure image management and WhatsApp-based communication between buyers and sellers.
- Implemented RESTful APIs and database operations to manage listings, users, and marketplace interactions.

DE SILVA BAR — Bar Management System | Group Project

Technologies: React.js, Node.js, Express.js, MongoDB

- Developing a full-stack web application for inventory management, online ordering, and administrative operations.
- Building role-based management features and real-time stock monitoring functionality to improve operational efficiency.

OrionAI — AI Skill Development Platform | Group Project

Technologies: React.js, Node.js, Express.js, MongoDB

- Contributed as a Frontend Developer to an interactive AI learning platform focused on practical skill development.
- Developed responsive and reusable UI components across learning modules including writing, art, music, and programming.
- Collaborated within a team environment using modern frontend development practices.

RESEARCH EXPERIENCE

Bug Detection and Code Review Assistance Using Neural Networks | Undergraduate Research

Technologies: Python, CodeBERT, GAT, PyTorch, Machine Learning, Deep Learning

- Developed a hybrid AI model combining CodeBERT and Graph Attention Networks (GAT) for automated Java bug detection.
- Built and analyzed a dataset of 2,721 bug-fix pairs mined from 14 open-source GitHub repositories.
- Implemented explainable AI techniques and achieved a ROC-AUC of 0.855 and F1-score of 0.742.

EDUCATION

BSc (Hons) in Software Engineering | Sabaragamuwa University of Sri Lanka | Expected Graduation: 2026

G.C.E. Advanced Level – Physical Stream | Poramadulla National College | 2020

CERTIFICATIONS

- AWS for Beginners with Hands-On Labs — KodeKloud
- Artificial Intelligence & Machine Learning Certification — SKYREK Academy
- Computer Vision App with Azure Cognitive Services — Coursera
- Python Program Course from UST — Coursera

ACHIEVEMENTS

Runners Up — IEEE Innovation Nation Sri Lanka Provincial Competition — IEEE Student Branch of SUSL 2024

Semi-Finalist — Hack Venture 1.0 — AIESEC in University of Kelaniya 2024

Finalist — Duothon 4.0 — IEEE Student Branch of NSBM 2024

LEADERSHIP & VOLUNTEERING

Project Co-Chair — AURELIA v1.0, IEEE WIE Student Branch Affinity Group of SUSL

- Coordinated planning, team activities, and event execution while collaborating with multiple stakeholders.

Organizing Committee Member — Career Forge Phase 02

- Supported event planning, coordination, and participant engagement activities.

Organizing Committee Member — VisionX v1.0

- Contributed to operational planning and successful execution of technical initiatives.

SOFT SKILLS

Problem Solving, Critical Thinking, Team Collaboration, Communication, Leadership, Adaptability, Continuous Learning, Time Management