

Savindu Suranjith Thennakoon

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Professional Summary

Driven Computer Science and Engineering undergraduate specializing in full-stack development, mobile engineering, and applied AI. Experienced in building scalable, user-centric solutions including cross-platform applications with machine learning and autonomous LLM agents. Proficient in Python, React Native, and the MERN stack. Seeking a software engineering internship to apply robust problem-solving skills to innovative technical projects.

Projects

- **Smart Attendance and Classroom Access Platform -**
Currently developing the Smart Attendance and Classroom Access Platform to modernize university attendance tracking and eliminate proxies. The system features a cross-platform mobile app, a staff web dashboard, and a scalable microservices backend. By implementing a secure two-phase verification process using an face recognition system and GPS geofencing, the platform automates check-ins, delivers real-time analytics, and ensures high data integrity while reducing administrative overhead.
- **FitLock (AI App-Locker)** | *[Feb 2026 - Ongoing]* | [View on Google Play](#)
Designed and deployed a productivity and fitness application that locks distracting apps, requiring users to complete physical exercises to unlock them. Built using React, Vite, and Tailwind CSS for the frontend, bundled as an Android app using Capacitor, and leveraged MediaPipe Pose for on-device AI pose detection and machine learning functionality.
- **PrajaNavigator (AI Insight Platform)** | *[June 2026]* | [GitHub Repository](#)
Engineered a RAG system integrated with computer vision to analyze complex datasets, delivering actionable intelligence via specialized user and admin dashboards. Built with a Python-based backend for intelligent data handling, utilizing React and Tailwind CSS for streamlined interfaces, with containerized deployment managed via Docker Compose.
- **HackerRank Orchestrate May - AI Agent** | *[May 2026]* | [GitHub Repository](#)
Developed a terminal-driven support agent to automate ticket triage for HackerRank, Claude, and Visa platforms, ranking 81st out of over 12,000 registrants. Utilized a localized vector database via ChromaDB and HuggingFace for private retrieval, employing LangGraph to manage deterministic workflows. Built with Python and Pydantic to ensure structured responses from Google Generative AI while managing risk through automated escalation protocols.

Technical & Professional Skills

- **Programming Languages:** Python, C++, JavaScript, TypeScript.
- **Web & Mobile Development:** MERN Stack (MongoDB, Express, React, Node.js), React Native, RESTful API design, Frontend/Backend integration, Responsive Web Design.
- **AI & Computer Vision:** TensorFlow.js, MediaPipe
- **Databases:** MySQL, MongoDB, PostgreSQL.
- **Development Tools & Workflow:** Git/GitHub, Docker, Postman.

Education

- **BSc (Hons) in Computer Science & Engineering** | University of Moratuwa (3rd year) | *[2024] – Present*
- **GCE Advanced Level** | Dharmapala College (3 As, Z-Score: 2.12) | *[2023]*

Leadership & Extracurricular Activities

Leadership Roles

- **Marketing Committee Lead** | MazeX 1.0 - Micromouse competition (*May 2026 – Present*)
- **Matlab webinar series - IET** | Co-chair (*July 2026*)

Societies

- **IEEE RAS** | Web and Marketing pillar member (*Feb 2026 – Present*)
- **Moraspirit Marketing** pillar member (*March 2025 – Present*)
- **Operational pillar Member** | IET On Campus (*March 2026 – Present*)

Sports

- **Team Member** | Taekwondo, University of Moratuwa (*2025 – Present*)