



ISURU SULAKSHANA HETTIARACHCHI

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PROFESSIONAL SUMMARY

Motivated and detail-oriented Software Engineer with hands-on experience in full-stack web development, mobile application development, and AI/ML integration. Proficient in the MERN Stack, Android (Java/Kotlin), Flutter, and Python-based backends. Successfully completed all undergraduate coursework, including a research project focused on AI-driven mental health prediction. Eager to apply technical and problem-solving skills to deliver impactful solutions in a professional engineering environment.

TECHNICAL SKILLS

Programming Languages	JavaScript, Java, Python, Dart, Kotlin, SQL
Frontend Development	React.js, Next.js, Angular, Tailwind CSS, Redux (basic), Vite
Backend Development	Node.js, Express.js, FastAPI, REST APIs, Spring Boot, JWT Authentication, MVC Architecture
Full Stack Development	MERN Stack (MongoDB, Express.js, React.js, Node.js), API Integration
Mobile Development	Flutter (Dart), Android (Java/Kotlin), Firebase Integration
Databases	MongoDB, MySQL, Firebase Firestore
AI / Machine Learning	Scikit-learn, XGBoost, LightGBM, Data Preprocessing, Model Evaluation
APIs & Integrations	Gemini API, ChatGPT API, RESTful APIs, WebSockets (Socket.io)
Development Tools	Git, GitHub, Docker, Postman, VS Code, Android Studio, Jupyter Notebook
Software Engineering Concepts	OOP, Data Structures & Algorithms, Design Patterns (basic), Clean Code Principles
Other Skills	PDF Data Extraction, Data Visualization (basic), Agile Development (basic)

EDUCATION

Bachelor of Information and Communication Technology (Hons)

University of Sri Jayewardenepura, Sri Lanka | *Expected: July 2026*

Status: All coursework completed.

- Key Courses:** Data Structures & Algorithms, OOP, Database Management, Machine Learning, Software Architecture

KEY PROJECTS

Mental Health Prediction & Intervention– Final Year Research | *Python, XGBoost, LightGBM, Scikit-learn, Pandas, Java, Spring Boot, Firebase*

- Developed a personalized AI mental health intervention system using DASS-21 scores and lifestyle data.
- Implemented XGBoost and LightGBM models to predict stress, anxiety, and depression risk levels.
- Integrated a fine-tuned Large Language Model to generate personalized mental health recommendations for students.

Lab & Lecture Hall Reservation System | *Flutter, MERN Stack (MongoDB, Express, React, Node.js)*

- Built a cross-platform mobile app in Flutter for students and lecturers to manage resource bookings.
- Developed a full-featured MERN Stack admin panel for institutional management and scheduling.

Lecture Hall Chat App | *Node.js, Express, React, Socket.io*

- Created a real-time messaging platform enabling interactive discussions in a lecture environment.
- Implemented bi-directional communication using Socket.io, with a React frontend and Node.js/Express backend.

ES-Words – Language Learning App | *Android (Java), Gemini API, ChatGPT API*

- Engineered an offline Android app featuring 5,000+ English–Spanish word pairs with AI-powered definitions.
- Integrated Gemini and ChatGPT APIs to deliver context-aware, intelligent language explanations.

COD – Real-Time Object Detection App | *Android, TensorFlow Lite, CameraX*

- Built an Android application using TensorFlow Lite and CameraX for real-time on-device object detection.
- Demonstrated edge-AI capabilities with efficient model inference running entirely on mobile hardware.

SL GPS Tracker – Offline Navigation & Route Recording App | *Flutter, Python, QGIS*

- Developed a fully offline GPS navigation app with preloaded maps, enabling seamless navigation across Sri Lanka without internet access.
- Implemented route recording, waypoint management, and GPX export using Flutter for the frontend and Python with QGIS for geospatial data processing.

WORK EXPERIENCE

Software Engineering Intern | **Axiata Digital Labs**

Jun 2025 – Dec 2025 · 6 months | Colombo, Sri Lanka (Hybrid)

- Developed comprehensive manual test cases and managed QA activities for the IOTMW_Axiata DTE_VBP API Repo Upgrade project using Jira and Zephyr Squad.
- Designed, developed, and unit tested Java Spring Boot microservices for TMF OpenAPI Certification projects (AGB_NP_24666 and AGB_CR_25328).
- Built complex TMF 634 API Wrapper microservices supporting Northbound and Southbound integrations; worked extensively with TM Forum Open APIs including TMF 671 and TMF 687.
- Contributed to TM Forum Real-World Certification of 10 APIs deployed on the Robi DTE platform and performed mandatory CTK (Conformance Test Kit) validations.
- Assisted in containerized microservice deployments, published APIs via the API Manager, and resolved critical CVEs in microservice base images.
- Conducted a feasibility study for the Dialog SSO Revamp project assessing migration from WSO2 Identity Server to Keycloak; authored technical scope docs and architecture diagrams.

CERTIFICATIONS

- Axonect Middleware Business Credentials Examination – Axiata Digital Labs (Oct 2025) | Credential ID: 68920cc6ede84e36010eaae6

REFERENCES

Dr. (Mrs.) P. L. M. Prabhani Head/Senior Lecturer (Grade II)
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