

Darshana Wijebahu

Software Engineer

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PERSONAL STATEMENT

Experienced software developer with hands on experience in mobile, web, and desktop application development, working on both frontend and backend. Skilled in AI and machine learning, I have built data-driven and scalable solutions that solve real-world problems. I am passionate about delivering high quality software, learning new technologies quickly, and contributing to innovative projects. With a strong focus on performance, efficiency, and teamwork, I aim to add value to any organization by applying my skills to create practical, user-friendly solutions.

EDUCATION

University of Moratuwa

B.Sc. (Hons) in Information Technology & Management

Moratuwa, Sri Lanka

July 2021 – Aug 2025

Poramadulla Central College

- G.C.E. Advanced Level Examination (2019)
2 A's (Business Studies, Economics), 1 B (Accounting) | District Rank: 21
- G.C.E. Ordinary Level Examination (2014)
7A Passes 2B Passes (ICT - A)

Rikillagaskada,

Sri Lanka

Institute of Chartered Accountants of Sri Lanka

- Accounting & Business / Business Level 2

Colombo, Sri Lanka

EXPERIENCE

Software Engineer Intern

Scienter Technologies (Pte) Ltd

Colombo, Sri Lanka

Dec 2023 – Jun 2024

- Completed a 7-month mandatory third-year internship (Grade A-), working on MyiFi, LuckyWallet Revamp, and SfinOTO mobile apps.
- Converted key screens and codebase from JavaScript to TypeScript and applied Atomic Design to create reusable components.
- Built a reusable camera component using react-native-vision-camera (TypeScript) and implemented AsyncStorage for offline access.
- Integrated REST APIs for KYC, account data and payments; implemented biometric authentication and Redux Toolkit for state management.
- Modernized UI screens from Figma designs, prepared Android test builds (APK/AAB), and fixed cross-platform issues (including iOS camera bugs).
- Authored technical articles sharing learnings (React Native + TypeScript, camera component, app security) and maintained documentation; worked in daily standups with backend and QA.

PROJECTS

CardioAI – AI-Powered Music Therapy Platform | AI & Machine Learning

- Developed a multimodal AI platform integrating Python (Librosa, LightGBM, TensorFlow) and React Native for real-time heart rate streaming via Bluetooth.
- Built LSTM/GRU models on the DEAP dataset to predict emotions and deliver personalized music therapy.
- Designed and deployed Flask APIs for seamless data handling and model integration.

Links: [Demo Video](#)

Tech Stack: Python, React Native, Flask, TensorFlow, Redux

ElectraTrack – Transformer Data Management System | Desktop Application

- Designed a Python Tkinter desktop application for the Ceylon Electricity Board to automate transformer movement tracking and reporting.
- Integrated secure login, real-time search, Excel export automation, and auto-fill data inputs, improving data accuracy by 70%.

Links: [Demo Video](#)

Tech Stack: Python, Tkinter, Pandas, OpenPyXL

PhishGuard – AI Phishing SMS Detection App | Mobile Application

- Built a React Native mobile app with real-time phishing detection, light/dark modes, and manual/automatic scanning options.
- Integrated a trained AI text-classification model for high-accuracy phishing detection.

Links: [Demo Video](#) | [APK](#)

Tech Stack: React Native, Redux Thunk, TypeScript

MyiFi, LuckyWallet & SFin – Financial Mobile Applications | Internship Projects

- Contributed to three fintech mobile apps during internship at Scier Technologies, focusing on front-end development, API integrations, and UI/UX modernization using Figma.
- Implemented biometric authentication, enhanced KYC workflows, and used Redux Toolkit for efficient state management and API handling.

Tech Stack: React Native, TypeScript, Redux Toolkit, Firebase, Figma

QA Automation – API & UI Testing Framework | Software Quality Assurance

- Built an automated testing framework using Selenium and RestAssured for UI and API testing.
- Applied Cucumber (BDD), TestNG for reporting, and integrated Jenkins CI/CD pipelines for continuous automation.
- Reduced manual QA efforts by 50% through automated regression testing.

Links: [GitHub](#)

Tech Stack: Selenium, RestAssured, Cucumber, TestNG, Jenkins, Git

TECHNICAL SKILLS

- **Programming & Scripting:** Python, JavaScript, TypeScript, Node.js
- **Mobile & Web Development:** React Native, React.js, Next.js, Redux, Redux Toolkit, Firebase
- **Desktop Applications:** Python Tkinter, OpenPyXL, Pandas
- **Backend & APIs:** Flask, REST APIs, CI/CD Integration
- **AI & Machine Learning:** TensorFlow, LightGBM, LSTM, GRU, Librosa, Data Preprocessing & Model Deployment
- **Databases:** MongoDB, Firestore
- **UI/UX & Design:** Figma, Responsive Design, UI Revamp Implementation
- **Software Quality Assurance:** Selenium, RestAssured, Cucumber, TestNG, Jenkins
- **Version Control & Collaboration:** Git, GitHub, GitLab
- **Other Tools & Platforms:** Excel Automation, Google Cloud, VS Code, Postman

RELATED ACADEMIC STUDIES

Software Engineering Methods

Object Oriented Analysis & Design

Object Oriented Programming (OOP)

Database Management Systems (DBMS)

Data Structures & Algorithms

Software Quality Assurance (SQA)

Enterprise Application Development (EAD)

Computer Communications

REFERENCES

Dr. Saminda Premarathne

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Department of Information Technology

Faculty of Information Technology

University of Moratuwa

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