DINUSHAN SELVARASA

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience in web and mobile development, specializing in cross-platform apps with React Native, React and TypeScript, backed by .NET (C#, ASP.NET Core, MVC 5, Web API, Entity Framework, LINQ). Most recently with DATAMTX, building features for a client's job and claims management platform, from a canvas-based floor-plan editor to PDF and Excel reporting. Skilled in OOP, REST APIs, PostgreSQL, SQL Server and MongoDB, and secure data practices within Agile teams. Eager to build intuitive, scalable solutions that enhance user accessibility and convenience.

TECHNICAL SKILLS

Languages	C#, TypeScript, JavaScript, Rust, Python, Java, C++, SQL
Front-end & Mobile	React, React Native, Expo (EAS), Next.js, Redux Toolkit, Zustand, Material UI, TanStack Query, Jotai, Konva (HTML5 Canvas), Flutter, Tailwind CSS, Bootstrap, HTML5, CSS3
Back-end	.NET, ASP.NET Core, Web API, MVC 5, Entity Framework Core, LINQ, Node.js, NestJS, Express.js, Rust (Tokio/Axum), TypeORM, REST APIs
Databases	PostgreSQL, SQL Server, MongoDB, Redis, Firebase
Cloud & DevOps	Azure, AWS, Cloudflare R2, Docker, Docker Compose, Caddy, Azure DevOps, GitHub, Git, CI/CD
Reporting & Testing	Syncfusion (Word/PDF), Aspose.Cells (Excel), Jest
AI / ML	Microsoft AI Services, LLMs, LangChain, TensorFlow Lite, Scikit-learn
Currently Learning	n8n, Kubernetes, Google Cloud
Soft Skills	Self-learning, critical thinking, problem solving, team leadership, client communication

PROFESSIONAL EXPERIENCE

DATAMTX **Jul 2026 – Oct 2026**
Software Engineer React • TypeScript • Konva • .NET (C#) • PostgreSQL
Client project: job and claims management platform for the construction and insurance-repair industry.

- Built core features of a canvas-based 2D floor-plan editor (React, Konva), including rooms, doors, windows, layers, undo/redo and moisture and humidity reading markers.
- Delivered features end to end across PostgreSQL, Entity Framework Core, ASP.NET Core APIs and the React/TypeScript front end, including Excel and PDF reports (Aspose.Cells, Syncfusion).
- Completed 70+ Jira stories and defect fixes in Agile sprints, with code reviews, client demos and Jest unit tests.

Pulr App **Apr 2025 – Jun 2026**
Software Engineer .NET • PostgreSQL • AWS

- Managed the REST APIs and PostgreSQL database behind the Pulr app's .NET back end.
- Handled AWS DevOps tasks, improving CI/CD pipelines and deployment reliability.
- Implemented data-saving workflows and a notification system.
- Fixed back-end defects and optimized database interactions for performance and stability.

XSoftSolution **Jan 2024 – Aug 2024**
Software Engineer ASP.NET • Blazor • Power Platform • Azure

- Developed an ASP.NET banking application following Clean Architecture principles for scalability and maintainability.
- Built a business card reader with Microsoft AI services in Power Platform to automate data extraction.
- Built an NLP-based resume parser that streamlines recruitment by extracting key candidate information.
- Gained extensive Azure and Power Platform experience, focusing on cloud integration and AI-driven solutions.

Boffo System Labs **May 2023**
Software Engineering Intern ASP.NET • React • React Native • SQL Server

- Worked on the web and Android versions of a leave management system.
- Used Azure DevOps to manage the project, and gained hands-on experience with WebSockets and Single Sign-On (SSO).

PROJECTS

Zapy — Food & Grocery Delivery Platform (Sri Lanka) **2026**
Lead Full-Stack & Mobile Engineer (Sole Creator) React Native • Next.js • NestJS • Rust • PostgreSQL • Redis
App Store • Google Play • zapy.lk

- Built solo a live food and grocery delivery platform: customer and rider mobile apps (iOS & Android), restaurant and admin web portals, and a marketing site, in English, Tamil and Sinhala.
- Developed the mobile apps with React Native, Expo and Redux Toolkit, and the web portals with Next.js and Tailwind CSS.
- Built the NestJS back end with PostgreSQL and Redis, plus a Rust dispatch service that matches orders to riders in real time, deployed with Docker.

Financial Tracking App **2025 – Present**
Personal project React Native

- Building a cross-platform income and expense tracker with React Native.
- Implemented a dashboard that tracks income and expenses, giving users a clear view of their financial position.

Vendor Service App **2024**
Personal project React Native • ASP.NET Core • SQL Server

- Mobile app that connects customers with service vendors: customers book services, vendors manage orders and admins oversee platform activity.
- Built with a React Native front end and an ASP.NET Core back end, using SQL Server for data and JWT authentication for security.
- Features real-time vendor notifications, secure bookings and an admin panel for user and service management.

PreSchool App **2022**
University project (Year 3) Flutter • Firebase • Dart

- Led the project team, coordinating work with Asana and GitHub; designed the Flutter app and worked on its Firebase Realtime Database.

RESEARCH

Mobile App for Improving Learnability of Dyslexic Children through Machine Learning **2023**
Final-year university research Flutter • Dart • Python • Machine Learning

- Led a team building a Flutter and Dart app that supports dyslexic children's learning with personalized content powered by machine learning.
- Applied supervised learning with the Scikit-learn library to build the model, trained on Google Colab.
- Integrated the trained model into the app with TensorFlow Lite for on-device inference.
- Managed team collaboration and resource planning in Notion.

github.com/Dinushan-S/English-Alphabet-Handwriting-Recognition-App

EDUCATION

BSc (Hons) in Computer Science and Technology **2019 – 2024**
Uva Wellassa University of Sri Lanka

PROFESSIONAL COURSES

- Azure AI Fundamentals — Microsoft
- Programming with JavaScript — Meta
- React Native — Meta
- Developing Android Apps
- Machine Learning — Coursera
- Data Structures & Algorithms — Coursera
- Applied Statistics — Coursera
- Agile Development and Scrum — Coursera
- Strategic Thinking — LinkedIn Learning

AWARDS

HackDev — National Awards, Sri Lanka (2019) • **RoboFest** — SLIIT, Sri Lanka (2019)

INTERESTS

AI and emerging technology • Photography • Traveling • Books • Video games • Food

REFERENCES

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