

DEWMINA UDAYASHAN

Software Engineer | Flutter

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PROFILE

Software Engineer with 5+ years of experience engineering high-performance mobile and backend applications. Proven track record of leading development teams, architecting scalable solutions with Flutter and NestJS, and implementing rigorous profiling to resolve complex memory and rendering bottlenecks. Committed to pushing boundaries and creating seamless user experiences through innovative design and high performance. Ready to contribute expertise to cutting-edge projects.

PROFESSIONAL EXPERIENCE

Software Engineer / Lead Mobile App Developer

IXD Labs

06/2024 – Present
Piliyandala, Sri Lanka

- Directed the end-to-end delivery of **5** high-performance mobile applications across the health, fitness, and enterprise domains, successfully scaling to support **10,000+** active users.
- Led and mentored a mobile development team of **4** engineers, architecting system solutions and enforcing high code quality standards through rigorous PR reviews.
- Accelerated deployment lifecycles by **40%** by overhauling CI/CD pipelines (e.g., Codemagic) and implementing Shorebird for zero-downtime Over-The-Air (OTA) updates.
- Diagnosed and resolved severe UI jank, memory leaks, and rendering bottlenecks utilizing Flutter/RN DevTools and Xcode Instruments, resulting in a consistent 60/120 FPS rendering and a **15%** reduction in battery consumption across legacy devices.

Software Engineer / Lead Mobile App Developer

NinjaPipe Pty Ltd

04/2023 – 01/2025
Melbourne, Australia
(Remote)

- Spearheaded the cross-platform development of an AI-driven B2B mobile CRM from concept to production using Flutter, accelerating lead capture and sales workflows for **1500+** active users.
- Engineered responsive, pixel-perfect UIs from Figma and integrated OpenAI models to power automated appointment scheduling and marketing workflows, boosting user engagement metrics by **25%**.
- Coordinated technical milestones and mentored a cross-functional team of **3** developers, ensuring 100% on-time delivery of major feature releases.
- Collaborated directly with project stakeholders, UI/UX designers, and backend engineers to define product roadmaps and translate business requirements into scalable mobile architectures.

Associate Software Engineer / Mobile Point-of-Sale (POS) System Developer

myPOS Software Solutions

05/2022 – 11/2022
Nugegoda, Sri Lanka

- Developed and maintained core features for a high-traffic mobile POS system, reducing production defect rates by **30%** through proactive debugging and codebase maintenance.
- Engineered robust full-stack features utilizing ASP.NET and MySQL, ensuring secure and reliable transaction processing in a fast-paced production environment.
- Collaborated with clients and cross-functional teams to gather requirements and deliver business-driven solutions.

Associate Software Engineer / Full-Stack Developer

Youth Services Pvt Ltd

05/2021 – 03/2021
Maharagama,
Sri Lanka

- Led the end-to-end development and deployment of a mobile application for the Youth Service Council of Sri Lanka, delivering it from concept to production.
- Contributed across the full stack, including UI development, application logic, and backend integration.
- Managed the full application lifecycle, ensuring successful delivery aligned with project requirements.

EDUCATION

BEng (Hons) Software Engineering – First Class Honours

London Metropolitan University

Diploma in Information and Communication Technology

VTA - Sri Lanka

SKILLS

Mobile Development

Flutter, React Native, Riverpod, BLoC, Clean Architecture, Performance Optimization, Flutter DevTools

Backend & Cloud

RESTful APIs, NestJS, MySQL, PostgreSQL, AWS, GCP, Hetzner, Firebase, Supabase

Engineering Practices & Leadership

Code Review (PRs), Technical Mentorship, Feature Planning, Cross-functional Collaboration, System Design Communication

DevOps & Release

Engineering

FVM, CI/CD, Codemagic, App Store / Play Store Deployment, ASO, Shorebird (OTA updates), Git, Release Automation

Product & Experimentation

A/B Testing, Feature Flagging, Product Analytics (PostHog), Event Tracking, User Behavior Analysis

PROJECTS

Professional Projects

- **Fitsmiles** & **Fitconnect** : Built cross-platform health and wellness mobile applications integrating wearable data tracking, geolocation-based reward systems, and AI-driven fitness insights to enhance user engagement and personalization.
- **NinjaPipe** : Developed a mobile CRM application for an AI-powered sales automation platform, including lead capture, automated appointment scheduling, and email/SMS marketing workflows.
- **NYSC** & **VTA** Sri Lanka: Developed mobile applications for the National Youth Service Council and Vocational Training Authority of Sri Lanka to digitize branch discovery, course browsing, and student enrollment processes.

Personal & Open Source Projects

- **Acrea** : | Flutter, GCP, Firebase, RevenuCat, ASO
A professional GPS surveying toolkit for mobile devices designed for real estate agents, farmers, and land surveyors who need accurate, easy-to-use tools for fieldwork. It enables precise GPS tracking, land area and distance measurement, and supports offline mapping for use in remote locations without connectivity.
- **Latitude Longitude Finder** : | Flutter, GCP, Firebase, RevenuCat, Admob, ASO
Built and grew a geolocation utility app, achieving 300k+ organic downloads through App Store Optimization (ASO) and data-driven A/B testing. Increased revenue by optimizing the subscription payroll and AdMob monetization through continuous experimentation and conversion rate optimization. Delivered advanced GPS, mapping, compass, and coordinate management capabilities.
- **FitScanned** | Flutter, NextJS, NestJS, PostgreSQL, AWS, Firebase, PostHog, RevenuCat, Cloudfare
An AI-powered calorie and nutrition tracking app featuring AI food recognition, personalized nutrition plans, and intelligent meal logging. Researched and implemented modern mobile app growth strategies, including high-converting onboarding funnels, user behavior analytics, A/B testing, and subscription payroll optimization to improve activation and conversion. Explored UGC-driven marketing workflows and organic growth strategies to better understand how leading consumer apps acquire and convert users at scale.
- **Open Source Flutter Packages** (pub.dev): Authored and actively maintaining reusable Flutter plugins for the global developer community.
- See more :- AppStore - PlayStore - GitHub - Pub.dev

REFERENCES

Dinuka Jayasuriya, CEO, NinjaPipe Pty Ltd

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LANGUAGES

- English
- Sinhala