

Akshayan Karunakaran

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PROFESSIONAL SUMMARY

Dedicated Software Engineer and Full Stack Developer with strong skills in web and mobile app development (front-end and back-end). Experienced in software architecture, API integration, authentication systems, RBAC, and team leadership. Pursuing B.Sc. in Computer Engineering at University of Ruhuna, with a passion for collaboration, problem-solving, and continuous learning.

EDUCATION

B.Sc. in Computer Engineering

2021 – Present

Faculty of Engineering, University of Ruhuna, Sri Lanka

- Relevant Coursework: Data Structures and Algorithms, Software Testing and Debugging, Operating Systems, Network Programming
- Leadership and team management experience

GCE Advanced Level (Mathematics Stream)

2020

BT/Periyakallar Central College, Sri Lanka

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Dart, Python, C++, HTML, CSS

Frontend & Mobile: React, Next.js, React Native (Expo), Flutter, Tailwind CSS, shadcn/ui, Riverpod, Zustand

Backend: Node.js, Express.js, Spring Boot, REST APIs, Microservices, WebSocket

Databases & Cloud: MongoDB, MySQL, Firebase (Auth, Firestore, FCM), AWS, Cloudinary, Vercel

Technologies: JWT Authentication, RBAC, API Integration (Stripe, Twilio), Software Architecture, Git, Jenkins, Docker

Tools: VS Code, IntelliJ IDEA, Android Studio, Postman

NON-TECHNICAL SKILLS

Leadership & Team Management: Coordinating teams, project oversight, code reviews

Communication: Effective verbal and written skills

Problem Solving: Analytical thinking, troubleshooting

Time Management: Meeting deadlines, prioritizing tasks

EXPERIENCE

Junior Software Engineer

Nov 2025 – May 2026

Tekly Solutions (Pvt) Ltd, Sri Lanka

- Continued at Tekly Solutions after the internship, developing Cricly, a multi-sport coaching and coach booking mobile application, using Flutter and Firebase.
- Implemented session booking with single and recurring multi-day schedules, and player performance tracking with charts and calendar views.
- Integrated Firebase authentication (Google and Apple sign-in), Cloud Firestore, push notifications (FCM), and Stripe payments.
- Collaborated with cross-functional teams following Agile practices, participating in code reviews and release cycles.

Software Engineering Intern

Jun 2025 – Nov 2025

Tekly Solutions (Pvt) Ltd, Sri Lanka

- Worked on UI/UX design and full-stack development for a Pet Care web application.
- Designed intuitive and responsive user interfaces using React with a focus on user experience.

- Developed frontend components and integrated them with backend services.
- Built backend APIs using Node.js and Express.js.
- Managed data storage and CRUD operations using MongoDB and Firebase.
- Implemented user authentication and real-time data handling using Firebase.
- Deployed and hosted the production application, furglopetcare.com.
- Collaborated with team members using Git and followed Agile development practices.

Team Leader

Jul 2024 – Feb 2025

A-Z Globe Mobile Application (Sri Lanka Team), Win Consult AS

- Led Sri Lankan development team for mobile app project.
- Conducted code reviews, optimized app performance, and coordinated with cross-functional teams.

Tester

Jan 2024 – Jun 2024

A-Z Globe Mobile Application (Sri Lanka Team), Win Consult AS

- Tested application features, reported bugs, and collaborated to improve UI/UX.

PROJECTS

ExportEASY – Exporter Assistant Mobile App (React Native + Node.js)

- Built a cross-platform mobile app (frontend and backend) guiding beginner exporters in Sri Lanka with personalized step-by-step roadmaps, export cost calculation, and document templates.
- Developed the frontend with React Native (Expo), TypeScript, NativeWind, and Zustand, and the backend with Node.js/Express, MongoDB, and JWT authentication.
- Integrated an AI-powered Export Assistant chat and Cloudinary-based document and template storage.

Cricly (BURL) – Cricket Coach Booking Mobile App (Flutter)

- Developed a multi-sport coaching platform at Tekly Solutions connecting coaches, players, and guardians, with session booking and recurring schedule management.
- Implemented Firebase authentication with Google and Apple sign-in, Cloud Firestore, push notifications (FCM), and Stripe payment integration.
- Built player performance tracking with charts and calendar views, Google Maps-based location features, and Riverpod state management.

Lakshan Primary Education Center – Full-Stack Web Application (Next.js)

- Built a full-stack management system for a primary education center using Next.js, TypeScript, and MongoDB.
- Implemented JWT authentication, QR code-based student attendance (generation and scanning), and Excel report exports.
- Integrated Twilio SMS notifications and analytics dashboards with Recharts; deployed on Vercel.

Vehicle Service Booking System – Cloud-Native Microservices Platform

- Developed a cloud-native vehicle service booking platform using a microservices architecture with TypeScript and Docker.
- Implemented JWT-authenticated customer and admin portals with real-time appointment slot availability.
- Designed event-driven in-app notifications for booking status updates and cancellations.

Global Wings Charity – Student Management System (MERN + TypeScript)

- Built a student management system with attendance tracking, marks and grade management, and analytics dashboards.
- Implemented role-based access control for admins and teachers using React (Vite, TypeScript, shadcn/ui, Tailwind CSS) and TanStack Query.

VacancyHub – Job Vacancy Management System (MERN Stack)

- Developed a job portal with separate experiences for employers and job seekers, including filtered job search, applications with cover letters, and application status tracking.
- Implemented JWT and bcrypt authentication, and employer dashboards with hiring analytics.

Salon Management System – Cross-Platform Mobile App (Flutter)

- Built a cross-platform salon booking and management mobile application using Flutter and Dart.
- Developed a Node.js/Express REST API backend with MongoDB for shops, bookings, and user data.

Cleaning Management System (MERN Stack)

- Designed and developed a Cleaning Management System using the MERN stack.
- Implemented scheduling, task allocation, and real-time updates with WebSocket.
- Integrated user authentication and role-based access control with JWT.

MIS Web Application for Faculty of Engineering, University of Ruhuna (Ongoing)

- Developing a Management Information System using React and Spring Boot.
- Implementing JWT for authentication and authorization, with RBAC via Spring Security.
- Frontend: React, Backend: Spring Boot

IoT Home Automation System

- Developed a system for remote control and monitoring of appliances using microcontrollers.
- Ensured secure networking and real-time data transmission.

File Compressor using Min Heap (Data Structures & Algorithms Project)

- Developed a file compression algorithm using Min Heap to reduce file sizes efficiently.
- Improved understanding of heap data structures and Huffman coding techniques.

Pet Adoption Website (MERN Stack)

- Developed a full-stack web application for pet adoption using the MERN stack.
- Implemented features for user registration, pet listings, and adoption requests.
- Frontend: React, Backend: Node.js/Express

Movie Review Application

- Created a movie review platform with user authentication and rating system.
- Implemented search functionality and personalized recommendations.
- Frontend: React, Backend: Node.js

REFERENCES

- **Dr. S. H. K. K. Gunawickrama**
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