

KAUTHAMAN THAYAPARAN

Full Stack Web Developer & Software Engineer

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ABOUT ME

Software Engineer specializing in full-stack web and mobile application development with expertise in React, Laravel, Node.js, and microservices architecture. Proficient in building scalable solutions for government, e-commerce, and enterprise systems. Experienced in database design, REST APIs, and implementing robust software architectures. Skilled at optimizing workflows, enhancing user experiences, and collaborating within Agile teams. Committed to writing clean, maintainable code and staying current with emerging technologies to deliver innovative and efficient software solutions.

EXPERIENCE

Intern Associate Software Engineer

Ceympon (Pvt) Ltd

📅 Aug 2025 – Present

- Involved in application development and maintenance, version control using Git and Bitbucket
- Responsible for bug fixing and performance optimization
- Collaborate within an Agile team environment for efficient project delivery

PROJECTS

iProMIS – Integrated Provincial Management System

full-stack application • government project

- Developed a full-stack system for the Northern Province of Sri Lanka as part of a **Sri Lankan government project** to manage development projects and activities
- Implemented end-to-end workflows for project creation, review, approval, and finance commission tracking with role-based access controls
- Applied Repository Pattern for data abstraction, ensuring clean separation between business logic and data access layers
- Integrated audit logging, status-based validations, and automated notifications for transparent government decision-making processes
- Ensured maintainable codebase with proper separation of concerns through layered architecture

Apislink – Microservices-Based Pollination Platform

full-stack application • microservices

- Built a full-stack platform connecting farmers and beekeepers using microservices architecture
- Implemented Repository Pattern across services for consistent data access and improved testability
- Developed secure role-based access control, real-time communication, and payment processing systems
- Designed automated notification systems and admin tools for monitoring and reporting
- Optimized platform for high traffic with scalable microservices and efficient data access patterns

EDUCATION

BSc (Hons) in Information Technology

University of Kelaniya

📅 April 2023 – Present GPA: 3.45

Major in Software Engineering

Diploma in Computer Science

Daniel Memorial Institute, Jaffna

📅 April 2014 – October 2014

ACHIEVEMENTS

- Hackventure 2024 – Most Popular Idea – Startup concept with highest audience votes
- Techno 2024 – Finalist – Tech-driven solution showcasing problem-solving skills
- Jayapura Expo 2023 – Finalist – Startup idea with strong market strategy
- Finova Hack 2023 – Finalist – Fintech solution addressing financial challenges
- Ideasprint 2023 – Finalist – Innovative startup pitch competing against top teams
- Northern Province Badminton Team – Provincial level competitor demonstrating teamwork 2013–2020

CERTIFICATIONS

- Software Engineering: Implementation and Testing - Coursera
- Web Design for Beginners - University of Moratuwa (UOM)
- Foundation of Project Management - Google
- AI for Beginners - HP Life
- Data Science and Analytics - HP Life

TMidukku – E-Commerce Management System

full-stack application • e-commerce

- Developed a full-stack multi-role e-commerce platform supporting Super Admin, Admin, Vendor, and Customer roles
- Implemented Repository Pattern to abstract database operations, facilitating easier testing and maintenance
- Built comprehensive features including user authentication, product catalog management, order processing, and discount systems
- Created role-based dashboards with notifications, approval workflows, and audit logging
- Ensured secure and efficient operations through layered architecture with clear separation of concerns

Medical Distribution System (Life Care)

full-stack application • healthcare • freelance

- Developed a full-stack application for managing inventory and medical representatives for a distribution center
- Currently implementing and maintaining the system for ongoing operations at the distribution facility
- Implemented Repository Pattern for clean data access abstraction between frontend and backend
- Built efficient data handling, tracking, and reporting systems for inventory and medical representative activities
- Designed responsive React frontend with Node.js backend to optimize operational workflows
- Ensured maintainable code structure through proper architectural patterns for long-term sustainability

Mobile Application Development

flutter, android studio • cross-platform apps

- Calculator App: Built cross-platform calculator for iOS and Android using Flutter with clean, responsive design
- Recipe App: Developed recipe browsing app with search functionality and real-time data synchronization using Firebase
- Applied Repository Pattern for data layer abstraction, separating UI logic from data sources
- Implemented clean architecture principles for maintainable and testable mobile applications

AI Project – Recipe Suggestion System

python, flask • ai/ml

- Built an AI-based recipe suggestion system to recommend recipes based on user-provided ingredients
- Implemented KNN algorithm for similarity-based recipe recommendations
- Used Pandas for efficient data handling and preprocessing
- Applied text vectorization and fuzzy matching to handle ingredient name variations
- Developed a web interface using Flask for user interaction

SKILLS

Programming Languages

- JavaScript, PHP, Python, Java, Dart

Frontend Development

- React, Vue.js, HTML5, CSS3, Next.js, Nuxt.js, React Native, Flutter

Backend Development

- Laravel, Node.js, Express.js

Databases

- MySQL, PostgreSQL, MongoDB, Firebase Tools

- Git, Bitbucket, Docker

Design & Analysis

- Responsive Web Design, UI/UX Principles, Database Design, Microservices Architecture, REST APIs, Agile/Scrum, Repository Pattern, Service Pattern

CLUBS

ER Coordinator (Rota Tomorrow)

Rotaract Club, University of Kelaniya

⌚ 2025

- Managed external relations and partnerships for the Rota Tomorrow event
- Ensured successful collaborations and sponsorships

Member

Generation Alpha

⌚ 2023 – Present

- Engaged in innovation-driven projects and startup initiatives

Member

Northern Province Badminton Club

⌚ 2013 – 2020

- Competed at the provincial level
- Demonstrated teamwork, discipline, and sportsmanship

REFERENCES

W. M. Janaka I. Wijayanayake, Ph.D.

@ Professor

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