

Bavaram Karunaharan

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Senior Software Engineer

Innovative, delivery-focused Full-Stack Developer with **5+ years** of hands-on experience leading complex projects in e-commerce, government, and SaaS domains. Proven ability to architect scalable systems, manage agile teams, and deliver high-performance applications using modern stacks, including Laravel, React Native, Next, and Next JS. Clear and collaborative communicator, committed to writing clean, efficient code and driving DevOps excellence through continuous improvement.

WORK EXPERIENCE

Senior Software Engineer

Jul 2023 - Present

Web Lankan Pvt. Ltd. - Nugegoda

Led full-stack development and delivery of enterprise-level systems in e-commerce, healthcare, and government sectors. Oversaw complete project lifecycles — from client requirement gathering and quoting to planning, execution, and deployment — ensuring on-time, high-quality delivery. Mentored team members and drove architectural decisions for scalable, maintainable solutions.

- **Sarasavi Bookshop** – Developed a robust online bookstore using **Next.js** and **Laravel**, integrating **Koko**, **Mint**, **PayHere**, and **PayPal**. Synced **real-time ERP** inventory via **Redis queues** and enabled **City Pack** delivery integration.
- **Sriyani Dress Point** – Built a modern fashion e-commerce site with dynamic promotional logic, multi-gateway payments, and a responsive, high-performance frontend.
- **GMOA App** – Designed and implemented a **React Native** mobile app for doctors featuring news, notices, a marketplace, and real-time alerts via Quiqbook and SMS gateway.
- **TRIMS (Water Board LMS)** – Architected a comprehensive **Laravel**-based LMS managing courses, nominations, exams, feedback, resource payments, and certificate generation across multiple organizational levels.

Tech Stack: Laravel, React, React Native, Next.js, Redis, AWS (EC2/S3), GitHub Actions, MySQL, Docker, PayPal, CI/CD

Software Engineer

Jan 2021 - Jul 2023

Axallant Tech Pvt. Ltd. - Jaffna

Worked on a U.S.-based apartment management **SaaS platform built from scratch**. Focused on crafting high-performance, scalable front-end architecture while contributing to product planning, **UI/UX**, and **DevOps** practices.

- Spearheaded **front-end development** using React, JavaScript, HTML, and CSS; built a **custom component library** without third-party dependencies to ensure design consistency and optimal performance.
- Led **usability testing** and user behavior analysis, resulting in key **UX improvements** that increased engagement and streamlined user workflows.
- Deployed production-ready applications to **AWS**, implemented **CI/CD pipelines**, and maintained performance across environments.
- Collaborated closely with product managers and designers to align technical execution with business goals and user needs.

Tech Stack: React, JavaScript, HTML/CSS, AWS, GitHub Actions, REST APIs, Figma, CI/CD

Associate Software Engineer

Jul 2020 - Dec 2020

Prime Technologies - Jaffna

Developed full-stack Laravel applications for business process automation and client services. Focused on scalable architecture, clean code, and user-centric design.

- Built and deployed platforms like **Table Quiz**, **DS Office Management**, and **Foreign Laundry Service**, improving operational efficiency.
- Integrated RESTful APIs, improved UI/UX, and ensured mobile responsiveness.
- Handled version control, team coordination, and best practice implementation in a collaborative agile environment.

Tech Stack: Laravel, PHP, MySQL, JavaScript, Bootstrap, Git, REST APIs

RESEARCH EXPERIENCE

Counterfeit Arduino Board Detection

Researched counterfeit electronic products, specifically Arduino boards, and developed an optical-based method using image processing techniques to detect fake products. Identified nine distinguishing features and achieved high testing accuracy using **OCR**, **Canny edge detection**, **thresholding**, **SIFT**, and **multiscale matching** with **K-means clustering** algorithms. The method is rule-based, simple, efficient, and adaptable to different versions of the boards.

EDUCATION

M.Sc. in Artificial Intelligence

Reading since July 2025

Sri Lanka Institute of Information Technology (SLIIT), Malabe

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

2016 - 2020

Vavuniya Campus of the University of Jaffna.

College (G.C.E A/L)

2001 - 2014

St John's College, Jaffna.

NPM PACKAGES

Image Chart – **React** and **Next.js** charting kit for binary data, utilizing themed images (building, map, mountain). Customizable colors, animations, and dark/light mode. **No external CSS** needed.

Half Pie Chart – React-based pie chart component to display value ratios. Fully customizable with animated CSS, responsive design, and theme support.

AES Encryption Unlimited – JavaScript AES encryption tool supporting unlimited key/value lengths. Encrypts strings and JSON arrays with or without custom keys.

Encrypted Cookie – AES-encrypted cookie manager in JavaScript. Supports storing encrypted strings or JSON arrays with custom keys, expiry settings, and manual erasure.

TECHNICAL SKILLS

Languages & Frameworks:

JavaScript, TypeScript, PHP, Python, C#, C++, React, React Native, Next.js, Node.js, Laravel, Flutter, HTML/CSS

Tools & Platforms:

AWS (EC2, S3), Docker, Jenkins, GitHub Actions, MySQL, MongoDB, Redis, Selenium, GraphQL, WordPress, Apache, Nginx, cPanel, GCP, Linux

Specialties:

CI/CD Pipelines, REST APIs, Microservices, SEO Optimization, DevOps Practices, UI/UX Design (Figma), Agile & Scrum

CERTIFICATION

IoT, Python, Cyber Security

Cisco Academy

Mar 2020 - Dec 2020

Chat-bot development

IBM

Mar 2020 - Dec 2020

REFERENCES

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