

VISHNUTHARAN BAVACHELVAN

Software Engineering Intern

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[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

PROFILE

IT honours undergraduate seeking a software engineering internship. Experience developing web and mobile systems with REST APIs, authentication and databases. Project work includes automated testing, offline synchronization and data-consistency safeguards, with frontend and backend contributions to university group projects.

EDUCATION

B.Sc. (Hons) in Information Technology

Faculty of Applied Science, University of Vavuniya

2023 - Present | Expected graduation: June 2027

Selected for the Honours programme in 2026. Coursework: object-oriented programming, data structures and algorithms, databases, web development.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL

Frameworks: React, Next.js, React Native, Expo, Spring Boot, Node.js, Express

Engineering: REST APIs, authentication, permissions, data consistency

Databases: PostgreSQL, MongoDB, SQLite, Firebase

Tools & testing: Git, Docker, Linux, GitHub Actions; API validation and regression testing

TECHNICAL PROJECTS

Buyora | E-commerce application | May 2026 - June 2026

Next.js, Spring Boot, PostgreSQL, Redis, Docker | [Repository](#) | [Verification](#)

- Built a Next.js/Spring Boot store with LKR filters, product comparison, stock alerts, checkout, order tracking and partial returns.
- Added email retry and refund safeguards; repository checks report 70 frontend, 36 backend unit and 8 PostgreSQL integration tests passing.

GatePilot | Independent access-management prototype | August 2026 - September 2026

React Native, Expo, Express, MongoDB, Docker | [Repository](#) | [Verification](#)

- Built shared React Native/Expo web and mobile screens with an Express/MongoDB API for vehicle visits, equipment approvals, staff QR lookup and PDF reports.
- Implemented department permissions, protected sessions and atomic visit updates; repository tests cover authentication, concurrent visits and report data.

CEB-Management | Household electricity planner

JavaScript, HTML, CSS, Node.js, Express, SQLite | [Repository](#) | [Verification](#)

- Built an Express/SQLite household energy planner with appliance tracking, meter readings, budgets, forecasts, weekly plans and CSV export.
- Implemented per-household data isolation and cookie-based sessions; repository tests cover tariff boundaries, input validation, CSRF and session expiry.

OTHER DEVELOPMENTS

[cashManage](#) | [CinemaStream](#)

TEAM PROJECTS & LEADERSHIP

GATEWAY | Semester 3.1 group project | [Repository](#)

Contributed React frontend and Express/MongoDB backend development to a team application for university vehicle records and gate-pass management.

Lanka Agri-Direct | Group project | [Repository](#)

Contributed frontend development, interface design and API integration testing to a team marketplace connecting Sri Lankan growers and consumers.

IEEEExtreme 18.0 organizing committee member. JamporIEEE logistics volunteer. IEEE and AIESEC member, 2023 - present.

School Head Prefect | J/Uduppidy American Mission College | 2020 - 2022

Trailblazers '24 | Development event

AIESEC in University of Peradeniya | 7 December 2024 | [Certificate](#)

Personal and professional development event.

CERTIFICATIONS & WORKSHOPS

JavaScript Essentials 1 & 2 - Cisco Networking Academy.

Cursor AI - AI-Powered Coding Session | Workshop

IEEE Student Branch, University of Vavuniya, with AIESEC and Techloom.ai | 9 September 2026 | [Certificate](#)

Participated in the coding session and completed and submitted the assigned task.

Introduction to SQL | Course

Sololearn | 20 June 2024 | [Certificate](#)

Completed the course with theoretical and practical understanding of SQL.

AWARDS & COMPETITIONS

IEEEExtreme 18.0 | Competition participation

IEEE | 26 October 2024 | [Certificate](#)

Team: TheChiefs.

IEEEExtreme 17.0 | Competition participation

IEEE | 29 October 2023 | [Certificate](#)

Team: Riskybiscuits.

Best Performance in Accounting & ICT | Merit award

J/Uduppidy American Mission College, Valvettithurai | 7 October 2023 | [Certificate](#)

Grade 13 recognition in Accounting and ICT.

HACKFORCE '23 | Competition participation

Yarl Salesforce Ohana | 23 September 2023 | [Certificate](#)

Salesforce hackathon participation.

REFERENCES

Dr. R. Nagulan | Senior Lecturer Gr.I

B.Sc. (Jaffna), M.Sc. in Computer Science (Peradeniya), Ph.D. in Medical Image Computing (Kent, UK)

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