

SARAVANAPAVANANTHAN SUJIPAN

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Professional profile

Ambitious Higher National Diploma (HND) Software Engineering student with strong academic foundations and practical experience in full-stack web development, Python programming, and database systems. Cisco-certified in JavaScript and Python, with additional exposure to machine learning and Agile project management using JIRA. Demonstrates strong analytical thinking, structured problem-solving ability, and hands-on project development experience. Seeking internship or junior software developer opportunities to contribute technical expertise within a dynamic development team.

Education

1. Higher National Diploma (HND) in Software Engineering | 2025 – 2026

BCAS Campus, Sri Lanka

- Coursework:

Software Development Life Cycle (SDLC), Object-Oriented Programming, Database Design, Web Application Development, System Analysis & Design, Algorithms & Data Structures

2. Foundation in Computing | 2024 – 2025

BCAS Campus, Sri Lanka

Completed foundation course to prepare for higher studies in computing and software engineering.

2025 Completed

3. Advanced Level (A/L) – Commerce Stream | Completed 2020

Manipay Hindu College

Subjects: Accounts, Business Studies, Economics

4. Ordinary Level (O/L) Manipay Hindu College

Completed (2017)

Subjects: Tamil, Science, Mathematics, History, Religion, English, Commerce, Drama, Health Science

Technical Skills

1. Programming Languages:

Python, Java, JavaScript, C++, HTML, CSS

2. Web & Frameworks: React, Node.js,

3. Databases:

MySQL, PostgreSQL, Firebase

4. Tools & Platforms:

Git, JIRA, VS Code, IntelliJ IDEA

5. Additional Knowledge:

Machine Learning Fundamentals, Agile Methodology, Authentication Systems, API Integration

Project experience

1. Full-Stack Web Applications

- Architected responsive web application using React.js frontend and Node.js backend, implementing secure JWT authentication and full CRUD functionality
- Integrated RESTful APIs with both relational (MySQL/PostgreSQL) and NoSQL databases, ensuring scalable data architecture
- Technologies: React, Node.js, Express, PostgreSQL, JWT Authentication

2. IoT Monitoring System (ESP32 Based)

- Engineered real-time cloud-connected monitoring solution using Firebase, implementing secure data transmission protocols for IoT devices
- Designed dashboard interface for real-time data visualization and alert systems
- Technologies: ESP32, Firebase Realtime Database, IoT Protocols

3. Machine Learning Projects

- Developed predictive models using Python (scikit-learn, pandas), applying data preprocessing, feature engineering, and model evaluation techniques
- Created data visualizations to communicate insights and model performance metrics
- Technologies: Python, Jupyter Notebook, scikit-learn, matplotlib

Certifications

1. JavaScript Essentials 1 – Cisco Networking Academy (2025)
2. Python Essentials 1 – Cisco Networking Academy (2025)
3. Machine Learning Using Python – Simplilearn (2025)
4. Introduction to JIRA – Atlassian (2026)
5. Diploma in Information Technology – DMI (2020)
6. Diploma in Web Development – HC (2022)
7. Diploma in Management Accounting – AAT Sri Lanka (2024)

Extracurricular Activities

1. Event Organization & Volunteering – BCAS Campus Tech Events
2. Photography & Video Editing (Adobe Premiere, Lightroom)
3. Cloud Computing & DevOps Self-Study Projects (AWS, Azure)

Languages

English: Fluent

Tamil: Native Speaker

Sinhala: Basic (optional)