

SELVAKUMAR THUSHANTHAN

Software Engineer Intern

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Profile Summary

Full Stack Web Developer passionate about designing scalable and efficient web solutions using the MERN stack (MongoDB, Express.js, React, Node.js). Skilled in API development, responsive UI design, and cloud deployment. Experienced with frameworks like Django and Flask, databases such as PostgreSQL and MySQL and tools including Docker and Git. Strong collaborator with a focus on clean architecture, performance optimization and user-centric design.

Technical Skills

- **Programming Languages:** JavaScript (ES6+), Python, SQL, HTML5, CSS3
- **Frontend Development:** React.js, Redux, Next.js, Tailwind CSS, Bootstrap
- **Backend Development:** Node.js, Express.js, Django, Flask, REST APIs, GraphQL
- **Databases:** MongoDB, MySQL, PostgreSQL, Firebase
- **Cloud & DevOps:** Docker, Git, GitHub
- **Testing & Tools:** Jest, Mocha, Postman, Webpack, Babel
- **Other:** Data Structures & Algorithms, Agile/Scrum, System Design, Authentication & Security (JWT, OAuth)

Projects

DengueGuard | *Digitalized Dengue Patient Management System.*

🐙 GitHub

- Designed and developed a digital healthcare platform to streamline dengue patient registration, monitoring, and treatment tracking.
- Implemented real-time dashboards for hospital staff to manage bed availability, patient vitals, and lab reports.
- Integrated automated alerts for critical patient conditions, reducing response time.
- Enabled secure role-based access and data handling.
- **Technologies Used:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB, WebSockets.

CtrlRoom | *Computer Lab Management System.*

🐙 GitHub

- Engineered an intelligent lab management system for efficient allocation, monitoring, and maintenance of computer resources.
- Automated lab scheduling, usage tracking, and remote system control, improving utilization.
- Developed admin dashboards with real-time insights into hardware/software health and student activity.
- Integrated user authentication and role-based permissions for secure lab operations.
- **Technologies Used:** React.js, Tailwind CSS, Laravel, Mysql.

Mini Projects

ChatMe | *Real-Time Chat Application*

🐙 GitHub

- Built a real-time chat platform using the MERN stack and Socket.IO for bi-directional communication.
- Implemented private messaging and online user status with low-latency performance.
- Integrated automated notification for unread and new messages.
- **Technologies Used:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Socket.IO.

X-Clone (Twitter Clone) | *Social Media Platform*

🐙 GitHub

- Built a full-stack Twitter-like social media application using the MERN stack and TanStack Query for efficient state management.
- Implemented core features including user authentication, tweeting, commenting, liking, and following system.
- Developed responsive UI with infinite scrolling, real-time updates, and optimized API calls for scalability.
- **Technologies Used:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB, TanStack Query.

GreenGrocery | *E-Commerce Platform*

🐙 GitHub

- Designed and deployed a grocery e-commerce application with full product catalog, cart, and order management.
- Integrated secure authentication, payment gateway, and admin dashboard for inventory control.
- Optimized product search and filtering for faster navigation, improving user experience and engagement.
- **Technologies Used:** React.js, Tailwind CSS, Node.js, Express.js, MongoDB.

Education

Bachelor of Science, Computing and Information Systems

2023 - Present

Sabaragamuwa University of Sri Lanka

G.C.E Advanced Level (Physical Science)

2019 – 2021

Bandarawela Tamil Central College

Z-score: 1.08

Soft Skills

- Problem-Solving & Analytical Thinking
- Team Collaboration & Agile Development
- Time Management & Task Prioritization
- Communication & Presentation Skills
- Adaptability & Continuous Learning

Extra Curricular Activities

- Voluteer in Logistics Team in ICARC 2025.
- Participate in Ballernina Programming Competition.
- Participate in IDEALIZE 2025.

Certifications

- Frontend Web Development - SimpliLearn
- Fullstack Web Development - SimpliLearn
- Mastering NodeJs - Udemy

Languages

- English - Professional Proficiency
- Tamil - Native
- Sinhala - Professional Proficiency