

VIYASHAN SATHIYAMOORTHI

Software Engineer Intern

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About

Software Engineering undergraduate seeking a Software Engineering internship. Skilled in MERN Stack, Next.js, FastAPI, PostgreSQL, AWS, and AI-powered application development. Built and deployed multiple projects, including a Smart Parking System, AI Personal Finance Manager, and E-Commerce Platform. Passionate about developing scalable software solutions and continuously learning new technologies.

Professional Experience

Freelance Full-Stack Developer, Aathirai News Channel 🔗

Remote

- Collaborated with client to gather requirements and design a scalable digital news publishing platform.
- Built and deployed a responsive news website with modern UI/UX and performance optimizations.
- Configured hosting, domain, DNS records, SSL setup, testing, and post-deployment maintenance to ensure reliable platform operation.

Education

BSc (Hons) in Software Engineering

2023 – Present

Sabaragamuwa University of Sri Lanka

G.C.E Advanced Level (Physical Science)

2021

CP / N / Cambridge College – Kotagala

Technical Skills

Frontend Development: HTML5, CSS3, Tailwind CSS, React.js, Next.js, Redux

Backend Development: Node.js, Express.js (REST APIs), Django, FastAPI

Programming Languages: JavaScript, Python, TypeScript

Databases: MongoDB, MySQL, PostgreSQL

Tools & Platforms: Git, GitHub, VS Code, Postman, Figma, Jira

Cloud & DevOps: Docker, AWS (EC2, S3), Kubernetes

Core Concepts: Object-Oriented Programming (OOP), MVC Architecture, RESTful API Development, JWT Authentication

Projects

Smart Park – Mini Project | *Group Project, Team Leader* 🔗

- Developed a Full-Stack Smart Parking System as part of a university group project.
- Led the development team and was responsible for frontend, backend, and overall system design using the MERN stack.
- Implemented secure authentication, role-based access, real-time slot tracking, vehicle registration, automated slot management, payments and email notifications.
- Deployed and maintained the application on AWS Free Tier for 6 months, using S3 for frontend hosting, EC2 for backend deployment, and CloudFront for HTTPS delivery and global distribution .

Text-to-Image SAAS App | *Individual Project* 🔗

- Built an AI-powered text-to-image generation web application using the MERN stack integrated with the ClipDrop API.
- Integrated a credit-based system with secure payment integration for purchasing additional credits.
- Designed secure authentication, efficient database operations, and a responsive user-friendly interface.

Finova AI – AI Personal Finance Manager | *Individual Project*

- Architected and developed a scalable full-stack financial management application with secure authentication, expense tracking, budget management, bill reminders, and real-time analytics dashboards.
- Implemented AI-driven financial intelligence features including automated expense categorization, spending trend analysis, financial health scoring, savings recommendations, and conversational AI support.
- **Frontend:** Next.js, TypeScript, Tailwind CSS, Zustand, Recharts | **Backend:** FastAPI, Python, LangChain, Gemini API | **Database:** PostgreSQL | **Auth:** Clerk

QuickCart – E-Commerce Website | *Individual Project*

- Engineered a Full-stack e-commerce application with role-based dashboards, product management, cart, and order processing.
- Built secure authentication, payment processing, and scalable services for media handling and background jobs.
- Tech Stack: Next.js, Tailwind CSS, Express.js, MongoDB, Stripe, Clerk, Cloudinary, Inngest

Extracurricular Activities

- **IEEE Volunteer – Program Team** | **Student Branch, Sabaragamuwa University of Sri Lanka** [View Certificate](#)
As a member of the Program Team, I contributed to planning, organizing, and coordinating event activities to ensure a smooth and impactful celebration of IEEE Day 2025.

Certificates

- **Crash Course on Python – Coursera** [View Certificate](#)
- **Crash Course on AWS – KodeKloud** [View Certificate](#)
- **Introduction to AI – Coursera** [View Certificate](#)
- **AWS ECS – KodeKloud** [View Certificate](#)

Soft Skills

Communication · Problem Solving · Quick Learner · Leadership · Time Management
Collaboration

References

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