

Sankeethan Tharmathayalan

Software Engineer Intern

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PROFILE SUMMARY

Computer Science student and self-taught Full-Stack Developer eager to apply technical skills in a software engineering internship. Experienced in building scalable web solutions using Next.js, Node.js, Django, and PHP, with a portfolio of 5+ completed projects demonstrating problem-solving abilities. Quick learner who stays current with emerging technologies while maintaining a focus on performance and user experience. Passionate about collaborative development and ready to contribute to innovative teams while expanding practical industry knowledge.

TECHNICAL SKILLS

- **Core Programming:** TypeScript, JavaScript, Python, Java, PHP, HTML/CSS
- **Frontend:** React.js, Next.js, Tailwind CSS, Bootstrap, Zustand
- **Backend:** Node.js (Express.js), Django, Laravel (PHP)
- **Mobile Development:** React Native
- **Databases:** PostgreSQL, MongoDB, MySQL, Firebase Firestore, Supabase
- **Cloud & DevOps:** AWS, Docker, Git, Vercel, Netlify
- **API Development:** RESTful APIs, GraphQL, WebSockets
- **Authentication & Security:** OAuth 2.0, JWT, Firebase Authentication
- **Development Tools:** Postman, Figma, Canva, Prisma ORM
- **Computer Science Fundamentals:** Data Structures, MVC Architecture
- **Payment Integration:** Stripe Payment Gateway
- **Familiar With:** Redis, AI Integration (OpenAI API)

EXPERIENCE

- **Software Developer (Freelancer)** 2024 - Present
Ascentis Technologies
 - Lead developer for "**Ventoux Summit**": Built an **AI-powered** photo-selling e-commerce platform using **PrestaShop**, implemented custom frontend components(**Next.js**) and integrated AI features for **image recognition** and search optimization. [Website Preview](#)
 - Collaborated with a 3-person team to develop "**Simple Email Signature**", a **Next.js** and **Supabase** application delivering customizable email signature templates with responsive design across multiple email clients. [Website Preview](#)
 - Contributed to backend **API development** and **database architecture**, reducing query response time by 30%.

PROJECTS

- **TBD Reads - Full-Stack Book Review Platform** [Project Preview](#)
Designed and implemented a comprehensive book review platform with user authentication, content management, and moderation capabilities using a modern tech stack.
 - **Architecture:** Developed a fully decoupled architecture with **Next.js** frontend consuming **Django REST API** endpoints, implementing **MVC pattern** and **RESTful** design principles
 - **Frontend:** Built responsive UI components with **Next.js** and **Tailwind CSS**, featuring dynamic content loading, client-side form validation, and optimized state management
 - **Backend:** Engineered scalable **Django REST Framework API** with 5+ endpoints, implementing **JWT token-based authentication**, role-based access control, and comprehensive error handling
 - **Database:** Designed **PostgreSQL** database schema with optimized queries and indexing for efficient data retrieval, managing relationships between users, books, reviews, and ratings
 - **Key Challenges:** Successfully implemented real-time review moderation system and optimized image loading for book covers to improve performance across desktop and mobile devices

- QuickMatch - Service Provider Marketplace Platform

[Project Preview](#)

Architected and developed a comprehensive service booking platform connecting customers with professionals across multiple industries, featuring multi-user roles, real-time notifications, and secure transaction management.

- **Architecture:** Implemented a modular **MVC architecture** separating business logic, data access, and presentation layers to create maintainable and scalable codebase
- **Frontend:** Developed responsive **React.js** components enhanced with **Bootstrap and Material-UI**, creating an intuitive interface with dynamic filtering, interactive booking calendar, and real-time status updates
- **Backend:** Engineered robust **PHP** backend with **OOP principles**, implementing authentication middleware, role-based access control, and data validation across customer, provider, and admin interfaces
- **Security:** Integrated multi-layer security features including **OTP verification**, secure password management, and **data encryption** for protecting sensitive user information
- **Communication System:** Built comprehensive notification system using **PHPMailer** and **in-app alerts** for booking confirmations, status changes, and service updates
- **Database:** Designed normalized **MySQL** database schema optimizing **query performance** for booking management and user relationship tracking

- StarLight - E-commerce Platform for Local Products

[Project Preview](#)

Independently designed and developed a full-stack e-commerce platform to showcase local products and support underprivileged communities, implementing a headless CMS architecture for optimal performance and scalability.

- **Architecture:** Engineered a modern headless commerce solution integrating **Next.js** frontend with **Wix backend services**, creating a high-performance shopping experience with optimized **SEO capabilities**
- **Frontend:** Built a responsive UI with **TypeScript and Tailwind CSS** featuring dynamic product galleries, client-side filtering, lazy-loaded images, and streamlined checkout process
- **Backend Integration:** Implemented **Wix headless API services** for inventory management, authentication, and payment processing while maintaining complete frontend design control
- **Performance:** Achieved 90+ PageSpeed performance scores through code splitting, image optimization, and server-side rendering of critical paths
- **Key Challenges:** Successfully implemented **secure authentication** flow between **headless frontend and Wix backend** while ensuring consistent state management throughout the user journey

- Task Management System - MERN Stack Implementation

[Project Preview](#)

Engineered a full-stack task management application leveraging the complete MERN technology stack, implementing best practices in API development, state management, and database design.

- **Frontend Architecture:** Built responsive **React components** with custom hooks for state management, implementing optimistic UI updates for immediate user feedback during **CRUD operations**
- **Backend Development:** Created a **RESTful API** using **Node.js and Express.js** with modular route handlers, middleware for request validation, and comprehensive error handling
- **Database Integration:** Designed **MongoDB schema** with appropriate indexing and implemented **Mongoose ODM** for data validation, structured queries, and efficient document relationships
- **API Design:** Developed and documented standardized RESTful endpoints with consistent error responses and HTTP status codes, thoroughly tested through Postman collection workflows
- **Authentication:** Implemented **JWT-based user authentication** with secure token storage and protected routes to enable personalized task management

- CloneTube – YouTube-Style Video Streaming Platform

[Project Preview](#)

Developed a feature-rich YouTube clone using React and the YouTube Data API, delivering a seamless video browsing and playback experience with a lightweight architecture. Designed without external libraries like Firebase or Axios to ensure performance efficiency and complete control over API interactions.

- **Architecture:** Built a modular frontend architecture using **React functional components and hooks**, focusing on maintainability and performance without relying on external state management or HTTP libraries
- **Video Playback:** Integrated **YouTube Data API** for real-time video fetching and playback, enabling smooth content delivery and minimal load times
- **Dynamic Content:** Implemented **category-based video filtering**, dynamic rendering of video metadata, and real-time updates for user-selected content

- **User Interface:** Designed a responsive and accessible UI with custom CSS, ensuring consistent user experience across desktop, tablet, and mobile devices
- **Channel & Comments Display:** Showcased related channel information and user comments for each video, enhancing user engagement and information depth
- **Performance Optimization:** Achieved fast load speeds and optimized performance by minimizing dependencies and using native browser APIs for HTTP requests and data handling
- **Key Challenges:** Successfully managed asynchronous API calls and pagination without third-party libraries, maintaining a fluid UX and efficient data handling logic

EDUCATION

- **Bsc. (Hons) in Computer Science and Technology** 2022 – Present
(Reading)
Uva Wellassa University, Badulla, Sri Lanka
CGPA-3.78/4
- **Secondary Education** 2012 – 2020
Jaffna Hindu College, Jaffna, Sri Lanka
Advanced Level - Mathematics

LANGUAGES

- English (Advanced)
- Tamil (Advanced)
- Sinhala (Intermediate)