

SANSIKA KODITHUWAKKU

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Colombo, Sri Lanka

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

SOFTWARE ENGINEER

Results-driven Software Engineer with 2+ years of experience in full-stack development, specializing in React, Java, Node.js, and cloud-based solutions. Proven track record in building scalable web/mobile applications, optimizing workflows, and leading cross-functional teams. Passionate about fintech, data security, and Agile development.

EXPERIENCE

SOFTWARE ENGINEER (SENIOR EXECUTIVE)

Abans Finance PLC | Colombo |

Sep 2023 - Present

- **CRIB Customer Viewer (React, Node.js, Financial Data Compliance)**
 - Led end-to-end development of a secure web application integrating with CRIB's credit bureau API, enabling real-time access to customer credit histories for 100+ bank employees.
 - Backend Optimization: Engineered a Node.js microservice to handle 10,000+ daily API calls, reducing latency by 35% through caching (Redis) and query optimization.
 - Security Compliance: Implemented JWT authentication and role-based access control (RBAC) to ensure adherence to Central Bank of Sri Lanka data privacy regulations.
- **High-Volume Transaction Reporting System (React, Tailwind CSS, Data Processing)**
 - Built a dynamic schema generator for 1M+ monthly transactions, reducing manual report generation time from 4 hours to 15 minutes (50% efficiency gain).
 - UI/UX Improvements: Designed a customizable dashboard with Tailwind CSS, enabling drag-and-drop filters for transaction categories.
 - Performance: Reduced client-side rendering time by 20% using React memoization and lazy loading.
- **Purchase Order Management System (React, Role-Based Workflows)**
 - Developed an audit-friendly PO tracking system with branch-level grant allocation dashboards, cutting approval delays by 40%.
 - Features:
 - Real-time notifications for pending approvals.
 - Automated PDF generation for audit trails.
 - Admin panel with granular permissions (e.g., "Finance Team" vs. "Branch Managers").
- **Task Manager for IT Infrastructure (React, MySQL, DevOps Integration)**
 - Replaced manual Excel tracking with a centralized task system, improving IT team productivity by 30%.
 - Backend: Built REST APIs for task CRUD operations, with automated Slack alerts for deadlines.
 - Database: Optimized MySQL queries, reducing report generation time from 2 minutes to 15 seconds.
- **Mobile App Development (Java, MySQL, Geolocation)**
 - *Geo-Tagging App:*
 - Implemented Google Maps SDK for field agents to capture location-tagged customer data (5,000+ monthly entries).
 - Reduced data entry errors by 25% with form validation and offline sync.
 - *Risk Assessment App:*
 - Designed algorithms to calculate risk scores using transaction history and credit utilization metrics.
 - Integrated MySQL triggers to auto-flag high-risk profiles for review.

SOFTWARE ENGINEER INTERN

Cerfel (Pvt) Ltd. | Gampaha |

Jan 2023 - Jun 2023

- Developed 19+ full-stack web applications for tourism clients using React, TypeScript, Redux, and Node.js, enhancing operational efficiency by 30%.
- Designed custom admin panels for clients to manage bookings, user data, and analytics, ensuring seamless backend integration.
- Optimized application performance by 40% through code refactoring and modern framework adoption (e.g., React Query, caching).
- Collaborated directly with clients to gather requirements, iterate on UI/UX, and deliver tailored solutions.
- Documented development workflows and API specs, reducing new developer onboarding time by 25%.
- Gained hands-on experience with Agile methodologies and cloud-based deployment (Docker).

EDUCATION

BSC (HONS) IN IT (SPECIALIZING IN SOFTWARE ENGINEERING)

SLIIT, Malabe (2021 - 2024)

- **Second Class Upper Division**

ADVANCED LEVEL

Ananda College, Colombo 10

- **Passed**

SKILLS

• Programming Languages

- Java
- Typescript
- Python
- C
- C++
- R

• DevOps & Tools

- Git
- GitHub
- Docker
- Jenkins
- AWS (Basic)
- Azure (Basic)

• Backend

- Node.js
- Express.js
- Nest.js
- PHP

• Databases

- MySQL
- MongoDB

• Frontend

- React
- Redux
- Material UI
- Tailwind CSS

• Mobile Development

- Andriod(Java,Kotlin)
- React Native

PROJECTS

FAKE NEWS DETECTION SYSTEM

- Full-stack (Nest.js + React + RTK) AI-powered platform with browser extension & mobile app.
- Deployed via Docker & Jenkins for scalability.

COLLABOARD

- Built a multi-user drawing app with real-time sync using Socket.IO, persistent boards in MongoDB, and customizable brushes.
- Key Features:
 - Live collaboration with <100ms latency for drawing actions.
 - Saved 40% dev time by reusing WebSocket logic across components.

CLOTHING STORE E-COMMERCE PLATFORM

- Developed a full-stack e-commerce platform with JWT authentication, role-based access (Admin/User), and Stripe payment integration.
- Engineered a Spring Boot backend with MongoDB for product/order management and a React+TypeScript frontend with Tailwind CSS.

LEADERSHIP & COMMUNITY

- INTERNATIONAL SERVICES DIRECTOR - ROTARACT CLUB OF SLIIT (2023-24)
- CHIEF ORGANIZER - WESTERN MUSIC ASSOCIATION, ANANDA COLLEGE (2018-19)
- MEMBER - LEO CLUB OF COLOMBO KNIGHTS (2019-21)

Mr. Darshan Silva

Cheif Executive Officer
Abans Finance PLC
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Mr. Samitha Vidhanaarachchi

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I hereby declare that the above-written particulars are true to the best of my knowledge.