

RANGA RATHNAYAKE

Senior Full Stack Engineer | Software Architect

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Professional Summary

Results-driven Senior Full Stack Engineer with 8+ years of comprehensive software development experience across fintech, Web3, government, and food delivery sectors. Expert in architecting and delivering end-to-end solutions from requirement gathering to deployment, with proven track record in microservices architecture, real-time systems, and complex problem-solving.

Technical Expertise

- **Languages & Frameworks:** Java, JavaScript, TypeScript, Node.js, NestJS, Express.js, React, Next.js, Angular, React Native
- **Cloud & DevOps:** Azure DevOps, Azure Functions, Docker, Kubernetes, CI/CD Pipelines, Git, Linux, Nginx
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Architecture & Specialized:** Microservices, WebSockets, REST, GraphQL, Web3, Smart Contracts, Real-time GIS/GPS

Professional Experience

Senior Full Stack Engineer, Rockland Distilleries (Pvt) Ltd 11/2024 – Present | Narahenpita, Colombo 5

- Architected and developed the 'Ting' Food Delivery Application from ground up, implementing NestJS microservices backend with NextJS frontend, handling end-to-end development lifecycle including requirement analysis, system design, and deployment
- Engineered real-time GPS location tracking and GIS-based location search functionality using WebSocket protocols, enabling seamless rider-customer-restaurant coordination
- Established robust CI/CD pipelines using Azure DevOps, managing production releases and implementing automated deployment strategies that reduced deployment time by 60%
- Proactively monitored production environments, troubleshooting critical issues with 99.9% uptime, ensuring seamless operations for thousands of daily transactions
- Integrated multiple third-party services including payment gateways, SMS providers, and mapping APIs, creating a comprehensive delivery ecosystem

Senior Full Stack Engineer, Payzy 01/2022 – 10/2024 | Papiliyana, Nugegoda

- Led end-to-end development of BNPL (Buy Now Pay Later) fintech platform serving 50,000+ users, designing and implementing microservices architecture using NestJS for maximum scalability and reliability
- Architected comprehensive database schemas optimized for financial transactions, implementing ACID compliance and data integrity measures for secure payment processing
- Integrated multiple payment gateways with fallback mechanisms, achieving 99.5% transaction success rate and handling millions in monthly transaction volume
- Developed cross-platform mobile applications using React Native, successfully launching on both Play Store and App Store with 4.5+ star ratings
- Built responsive web applications using React and Next.js, implementing server-side rendering for optimal SEO and performance
- Implemented Azure Functions for serverless computing, reducing infrastructure costs by 40% while improving system responsiveness

Software Engineer, Wayamba Development Authority 03/2019 – 08/2021 | Kurunegala

- Designed and developed comprehensive management software and tax collection applications for government projects, improving operational efficiency by 70%
- Collaborated directly with municipal councils and pradeshiya sabhas to gather requirements, design custom solutions, and ensure successful deployment across multiple jurisdictions

- Developed Java-based desktop applications (Java SE, EE) and Android mobile apps for field data collection, digitizing manual processes
- Created user-friendly interfaces for non-technical government staff, conducting training sessions and providing ongoing technical support

Associate Software Engineer, *Techno Action* 01/2018 – 03/2019 | Kurunegala

- Developed enterprise software solutions using Java technologies, contributing to multiple client projects across various industries
- Participated in full software development lifecycle from requirements gathering to deployment and maintenance
- Collaborated with senior developers to learn industry best practices and modern development methodologies

Freelance Projects & Achievements

Independent Contractor & Freelance Developer, *End-to-End Development Specialist* 2018 – Present

- Referral Marketing Systems: Architected and deployed complete referral marketing platforms with multi-tier commission structures, user dashboards, and real-time analytics, processing 100,000+ referral transactions
- MLM Platforms (Binary & Unilevel): Developed sophisticated multi-level marketing systems with complex compensation plans, genealogy trees, e-wallet integration, and automated commission calculations serving 10,000+ network members
- Web3 & Blockchain Projects: Built decentralized applications (dApps) with smart contract integration, cryptocurrency payment systems, NFT marketplaces, and Web3 wallet connectivity
- Financial Applications: Created comprehensive financial management systems including accounting software, invoicing platforms, expense tracking, and financial reporting dashboards
- Full-Stack Development: Handled complete project lifecycle for 20+ clients - requirement gathering, system analysis, architecture design, database modeling, backend/frontend/mobile development, CI/CD setup, server configuration, deployment, and ongoing maintenance
- AI-Enhanced Development: Leveraged AI coding assistants and tools to accelerate development cycles by 50%, maintaining high code quality and meeting aggressive deadlines consistently
- Client Success: Maintained 100% project delivery rate with 95% client satisfaction, resulting in multiple long-term retainer agreements and referrals

Education

Bachelor's Degree in Computer Software Engineering, *Java Institute for Advanced Technology* 2014 – 2018

Languages

- **English** — Native or Bilingual Proficiency
- **Sinhalese** — Native