

MALINDA RANASINGHE

ASSOCIATE TECHNICAL LEAD | FULL-STACK ENGINEER

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PERSONAL STATEMENT

Strategic Associate Technical Lead with 7+ years of experience specializing in React, Angular, Node.js, .NET Core, and microservices architecture. Proven track record in defining architectural roadmaps and leading mission-critical migrations, including a transition from single to multi-subject systems to drive global business expansion. Expert in architecting complex front-end SaaS products with custom RxJS-based state management systems to ensure modularity and high performance. Accomplished in leading engineering teams, conducting high-standard code reviews, and translating stakeholder requirements into scalable, high-availability microservices-based solutions.

KEY SKILLS AND EXPERIENCE

- **Technical Skills:**
TypeScript | JavaScript | React | Next.js | Angular | Node.js | Express.js | .NET Core (C#) | HTML5 | CSS3 | SCSS | PrimeNG | Tailwind CSS | Material UI | Ant Design | Redux | RxJS | LINQ | Vite | Jest | MSSQL Server | MySQL | MongoDB | Azure DevOps | Azure Functions | Azure AD B2C | AWS | EC2 | Lambda | Serverless | Docker | Jenkins
- **Tools & Practices:**
Git | GitHub | Nx | SonarQube | Jira | Figma | Cursor | CI/CD | Agile (Scrum, Kanban)
- **Soft Skills:**
Communication(English) | Problem Solving | Critical Thinking | Teamwork | Adaptability

WORK HISTORY

Associate Technical Lead

Slate Science Operations (Matific)

2024 Sep – Present

- Defined the architectural direction and roadmap for enterprise applications using Nx monorepos, reducing time-to-market for new features and cutting code duplication by 30%.
- Led a mission-critical architectural migration from single-subject to multi-subject systems, directly enabling business expansion into new global markets under tight deadlines.
- Engineered a unified library of reusable Angular components using Carbon Design principles, achieving a 40% reduction in technical debt and streamlining the delivery of scalable, enterprise-grade features.
- Strengthened CI/CD pipelines with automated testing and quality checks to ensure seamless and reliable releases.
- Pilot-tested and integrated AI-assisted coding (Cursor) into the engineering workflow, measurably increasing team velocity and setting a new standard for modern engineering practices within the organization

Associate Technical Lead

99x

2023 Feb – 2024 Sep

- Bridged the gap between technical teams and senior stakeholders by translating complex business requirements into scalable technical roadmaps, resulting in a 25% increase in release reliability.
- Led product outline reviews to align technical roadmaps with customer needs and mentored engineers through code reviews to maintain high coding standards.
- Directed product outline evaluations and peer review cycles, ensuring 100% alignment with business requirements while proactively identifying technical debt and optimization opportunities.
- Developed scalable backend logic using Azure Functions and ensured 80% plus code reliability by implementing comprehensive unit testing suites with xUnit.
- Optimized rendering paths for data-heavy modules by minimizing DOM depth and reducing reflows, improving Largest Contentful Paint (LCP) by 30% for large-scale data tables.

Senior Software Engineer | Software Engineer

99x

2019 Feb - 2023 Feb

- Architected the front-end of a SaaS product and implemented a custom RxJS-based state management system, ensuring scalable, modular design and consistent data flow across dashboards.
- Defined and enforced non-functional performance standards, improving system performance and scalability through lazy loading, caching strategies, and optimized database indexing.
- Implemented a robust tenant data isolation strategy and optimized caching mechanisms, improving system performance and maintainability.
- Participated in multiple testing activities, including unit testing, end-to-end testing, regression testing, smoke testing, and system testing to ensure application quality and reliability.
- Managed cloud environments with a focus on Identity and Access Management (IAM) and Service Principals, ensuring secure authentication and authorization flows.

Trainee Software Engineer

99x

2018 Jan - 2019 Feb

- Engineered the Tracified Configs portal to enable user-driven supply chain and UI customizations, mitigating manual workflow creation.
 - Developed an entire authentication and authorization process for a multi-tenant SaaS platform using Angular, Node.js, Express.js, TypeScript, and AWS Cognito as the authentication service.
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PROJECTS

Matific | EdTech SaaS Platform (React, TypeScript, Angular, RxJS, Jest, CI/CD, Jenkins)

Business scope: Global learning platform delivering interactive, game-based learning for primary students, with teacher analytics, progress tracking, and curriculum-aligned activities across multiple countries.

- Optimized app performance for millions of students through advanced change detection and state management.
- Re-engineered the Teacher Onboarding flow by migrating it into a dedicated onboarding site, drastically reducing time-to-value for new educators and streamlining user acquisition.
- Focus on the Admin Suite automation. Reframe this as: "Designed an automated migration engine to reduce manual intervention, aligning engineering effort with long-term operational cost-reduction goals.
- Leveraged lazy loading and memoization to shave 2.5s off admin interface load times, optimizing responsiveness for complex data modules.

NestDeed | Real Estate Platform (Next.js, React, TypeScript, Node.js, Easy-Peasy, Ant Design)

Business scope: Platform for property listings, agent management, and ads, enabling seamless interaction for users.

- Developed Node.js backend APIs with DynamoDB, enabling scalable and efficient data management for properties, agents, and advertisements.
- Built an algorithm to map dynamic property listing/detail pages with reusable components and multi-type property support.
- Leveraged React Hooks (useMemo, useCallback) to optimize expensive re-renders in data-heavy property listing grids, ensuring a fluid 60fps user experience.
- Designed modular UI components with Ant Design and managed state using Easy-Peasy, ensuring maintainable and consistent frontend architecture.

Tracified | Supply Chain Transparency (Angular, TypeScript, RxJS, Node.js, Express.js, AWS Cognito)

Business scope: Blockchain-based supply chain traceability platform that verifies product origin, authenticity, and quality across global supply chains.

- Engineered and took ownership of a component-driven configuration utility enabling dynamic customization of business workflows, reducing system setup time by 80%.
- Built a Node.js orchestration layer to handle complex data generation and ensure reliable external API integration.
- Implemented optimized data handling and API interactions, reducing data transfer latency by 20% and improving system responsiveness.
- Collaborated with cross-functional teams to design and develop APIs integrating application modules with AWS services.

Easy2You | Logistics Platform (Angular, TypeScript, .NET Core(C#), NGRX, Azure)

Business scope: B2B/B2C logistics platform enabling last-mile delivery management, real-time parcel tracking, route optimization, and fleet operations for e-commerce and enterprise clients.

- Engineered scalable frontend modules for shipment lifecycle management and live status tracking using SignalR to provide low-latency, real-time parcel updates for e-commerce clients.
 - Optimized API integration and data handling to support high-volume orders and real-time delivery updates.
 - Implemented NgRx for scalable and predictable state management, enhancing performance and maintainability of the application.
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EDUCATION

BSc (Hons) in Computer Science and Software Engineering

University of Bedfordshire

2016 Dec - 2017 Dec

Higher Diploma in Computer Based Information Systems and Diploma in Software Engineering

National Institute of Business Management, Sri Lanka

2013 Oct - 2015 Aug

INTERESTS

Technical Mentor

- Mentored university students on scalable frontend architecture and modern engineering best practices.
- Led hands-on IoT workshops for university students, introducing real-world use cases and fundamentals.

Wellness & Performance:

- Endurance runner and active hockey player with a strong focus on fitness and discipline.
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REFEREES

Referees available upon request.