




Ryan Maddumahewa | Senior Software Engineer

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PROFESSIONAL SUMMARY

Experienced Software Engineer with a Master of Computer Science, specialising in high-performance and secure web applications, particularly within sectors like Health and Telco/Energy. My primary focus is on Angular (v12 to 21) and TypeScript, where I use standalone architecture to deliver complex, public-facing portals and critical dashboards. I have strong full-stack integration skills, including REST API development using C#/.NET 8, and expertise in CI/CD governance (Azure DevOps). I'm keen to secure a leadership track role to use my proven ability in E2E automation (Playwright) and performance optimisation (25% load improvement), ensuring technical excellence and delivering resilient, accessible software. Australian Citizen.

EXPERTISE OFFERED

- **Frontend Development (Angular & TypeScript):** Proficient in developing responsive, accessible, and high-performance web interfaces using Angular (v12–21), TypeScript, and PrimeNG. Experienced with modern Angular features such as signals, standalone components, and lazy loading to enhance UX and maintainability.
- **Backend Integration & API Development:** Skilled in building and consuming RESTful APIs using .NET 8 and Django, ensuring secure communication through HttpOnly cookies and JWT-based authentication. Focused on scalable architecture and clear separation between frontend and backend logic.
- **Automation, AI & RPA-Driven Solutions:** Applied AI-assisted coding, automation, and RPA (Robotic Process Automation) concepts to streamline workflows and reduce manual intervention. Passionate about integrating intelligent features that enhance business productivity and user engagement.
- **Testing & Quality Assurance:** Hands-on experience with Playwright for end-to-end testing, Jasmine/Karma for unit testing, and ESLint for code quality. Strong commitment to clean architecture, reusable components, and bug-free delivery.
- **Project Management & Collaboration:** Adept at working in Agile environments, coordinating with cross-functional teams, and managing releases via GitHub, Azure DevOps, and CI/CD pipelines. Experienced in writing clear Jira card descriptions, defining acceptance criteria, and validating completed tasks to ensure alignment between product requirements and technical delivery. Recognised for proactive communication, teamwork, and problem-solving under tight deadlines.
- **UI/UX and Performance Optimization:** Focused on optimizing load times, implementing responsive layouts with Tailwind CSS, and ensuring WCAG 2.2 accessibility compliance. Skilled in debugging, refactoring, and enhancing user experiences across devices and browsers.

PROFESSIONAL CREDENTIALS AND EDUCATIONAL QUALIFICATION

- **Master of Computer Science (MSc)** at Charles Sturt University, Sydney, Australia (2016 – 2018)
- **Bachelor of Science (BSc) (First Class Honours) in Information Technology** at Sri Lanka Institute of Information Technology (SLIIT) (2014)
- **Member of the Australian Computer Society (ACS)** since 2019 Membership ID: 300146
- **ICT Professional Year Program** completed with the Australian Computer Society (ACS) in 2019
- **AI Agent Fundamentals**, Certificate from Databricks (2025)

CAREER SNAPSHOT

- **Software Engineer at Ocean Health Systems, Melbourne** (Jan 2024 – Present): Developing Angular and .NET 8 healthcare applications with focus on security, privacy, and workflow automation.
- **Frontend Engineer at Vocus Group (Dodo/iPrimus), Melbourne** (Oct 2021 – Jan 2024): Delivered customer-facing Angular portals for telecom and energy platforms, improving user experience and performance.

- **Full Stack Developer at ZippyCrowd, Melbourne** (Sep 2020 – Sep 2021): Built and deployed full-stack social collaboration features using React, Express, and MongoDB.
- **Software Developer (Contract) at I Tech You Learn, Adelaide** (Mar 2019 – Sep 2020): Designed and maintained .NET Web APIs for internal e-learning and content management systems.
- **Full Stack Developer at Enee Solutions, Adelaide** (Aug 2018 – Aug 2019): Developed REST APIs with Laravel and business automation dashboards for enterprise clients.
- **Assistant Support Engineer at First Technology, Sydney** (Sep 2016 – Jun 2018): Provided IT infrastructure support and assisted in web deployment and troubleshooting.
- **Freelance Software Engineer (.NET Web Applications) at Gampaha Wickramarachchi Ayurveda Hospital, Sri Lanka** (Oct 2015 – Jun 2016): Developed hospital and university management modules including timetables, exams, and student score systems using ASP.NET and SQL Server.
- **Associate Software Engineer (Backend) at Private UK Healthcare Client, Narahenpita, Sri Lanka** (Dec 2013 – Feb 2016): Contributed to CMS and Web API development using C# .NET and Ruby on Rails.
- **Software Engineering Intern at Virtusa Pvt Ltd, Colombo** (Jul 2012 – Sep 2012): Gained practical experience in enterprise backend development and software lifecycle processes.

TECHNICAL PROFICIENCIES

- **Frontend:** Angular (v12–21), TypeScript, HTML5, CSS3, PrimeNG, Tailwind CSS, React
- **Backend:** .NET 8, Django, Laravel, Ruby on Rails, RESTful APIs, Swagger
- **Database:** SQL Server, PostgreSQL, SQLite, MongoDB
- **Testing:** Playwright, Jasmine, Karma, ESLint
- **Tools & Platforms:** GitHub, Bitbucket, Azure DevOps, Jira, VS Code, Postman
- **Others:** AI-assisted coding, RPA automation, CI/CD pipelines, performance optimization

CAREER NARRATIVE

Ocean Health Systems

January 2024 – Present

Experienced Software Engineer – Frontend focused

- ❖ **UI/UX Design:** Designed and implemented frontend UI/UX from the ground up, translating requirements from Confluence documentation and flow diagrams into a polished, user-friendly interface.
- ❖ **Team Collaboration:** Worked in an agile team of eight, collaborating with business analysts and backend engineers to deliver high-quality features on tight sprints.
- ❖ **Data Confidentiality:** Handled sensitive personal health data (hospital staff vaccination records) with strict confidentiality, implementing role-based access controls and privacy safeguards to meet health-sector data-protection requirements.
- ❖ **System Integration:** Integrated with third-party systems including Auth0 for secure authentication and the Australian Immunisation Register (AIR) via REST APIs for record verification, using multi-step authorisation and token security.
- ❖ **Azure CI/CD:** Delivered features through Azure DevOps multi-stage pipelines (build, test, deploy) across non-prod and prod environments, with Playwright E2E tests gating releases to maintain system integrity.

Key Achievements:

- ❖ Delivered a fully functional Immuniser Dashboard that centralised vaccination management, improving data accessibility and efficiency across multiple hospitals.
- ❖ Integrated an end-to-end testing framework using Playwright and automated it in Azure DevOps pipelines, improving release reliability and cutting regression time by 40 percent
- ❖ Implemented role-based user management and real-time audit logging, enhancing system security and compliance with healthcare standards.
- ❖ Led the migration of frontend components to Angular standalone architecture, improving maintainability and load performance by 25 percent.

Frontend Engineer (Digital team)

- ❖ **Sales Funnel Development:** Built and enhanced responsive web applications for customer sales funnels, allowing users to purchase mobile SIMs (activations), sign up for NBN broadband plans, and add energy (gas/electricity) services.
- ❖ **Process Improvement:** Streamlined the multi-step online sign-up process to improve conversion rates and the overall user experience.
- ❖ **MyDodo Portal:** Improved and maintained the MyDodo customer self-service portal, enabling customers to view and manage their internet, mobile, and energy accounts in one place.
- ❖ **Feature Expansion:** Added new features to the portal such as plan upgrades/downgrades and a support ticketing system to meet evolving client requirements.
- ❖ **UX Enhancement & Stability:** Introduced UI/UX enhancements (e.g. refined look-and-feel) and implemented change-of-plan functionality to reduce support calls, while balancing new development with legacy system stability.
- ❖ **Large-Scale System:** Contributed to a large-scale application serving tens of thousands of users, ensuring efficient data handling and state management for complex flows of customer, billing, and usage data across multiple services.
- ❖ **Salesforce/MuleSoft integration:** Consumed MuleSoft REST APIs backed by Salesforce CRM for account, order and case data, aligned frontend contracts to OpenAPI specs defined customer, billing, and Energy data structure.
- ❖ **Collaboration:** Coordinated with architects and developers on design discussions, focusing on frontend best practices and secure data synchronization between the portal and backend CRM/billing systems.
- ❖ **Mentored:** Junior developers, sharing knowledge, and helping them to improve their skills.

Key Achievements:

- ❖ Led the complete UI refresh for the Mobile sales funnel flow, which directly resulted in a noticeable jump in new user conversions within the first few months.
- ❖ Completely updated the Energy sales funnel UI, which quickly led to more customers finishing the sign-up process and a much better overall experience.
- ❖ Delivered a faster, responsive frontend that kept customers engaged and reduced the number of people leaving the site, directly contributing to better business retention and revenue growth.

Software Developer

- ❖ **E-Learning Platform Development:** Built and maintained a large-scale university e-learning platform serving over 10,000 active users, enabling online course delivery, assessments, and student progress tracking.
- ❖ **End-to-End Frontend Design:** Designed and implemented Angular components and responsive UI layouts to ensure accessibility and engagement across desktop and mobile devices.
- ❖ **AWS Deployment:** Deployed and monitored production environments using AWS Lambda and EC2, ensuring performance, scalability, and uptime.
- ❖ **Serverless Cloud:** Deployed scalable frontend and backend services using AWS Lambda and RDS, automating course data processing via Python scripts.
- ❖ **Performance Optimisation:** Improved load times and reduced latency through component profiling and asset optimisation.

 REFEREES

Available upon request