

# Ryan Maddumahewa | Senior Software Engineer

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## PROFESSIONAL SUMMARY

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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

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- **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

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- **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

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- **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 PROFICENCIES

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- **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

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**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.

**Vocus Group Pty Ltd (Dodo / iPrimus)  
Frontend Engineer (Digital team)**

**October 2021 – January 2024**

- ❖ **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.

**iTechYouLearn Pty Ltd (EdTech)  
Software Developer**

**March 2019 – September 2020**

- ❖ **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