FABRIZIO ROSARIO MORONE

SPEARWOOD WA, Australia • f.rosario.morone@gmail.com • +61 485 841 622 • [Linkedin](#)• [Portfolio](#)

Senior Software Engineer with 11+ years of experience delivering scalable, secure healthcare platforms across Australia, Europe, and Asia.
Specialized in React, Angular, Vue, Next.js, and Node.js–driven services supporting high-availability clinical systems.
Proven record of improving performance, scalability, and compliance within HIPAA- and GDPR-regulated environments.
Experienced in cloud-native deployments, CI/CD automation, and real-time data pipelines supporting mission-critical workflows.

Professional Experience

Senior Full Stack Engineer
Andersen, Warsaw, Poland
March 2020 – present

- Improved patient dashboard load times by 62% using Next.js SSR, React hooks, and component memoization, supporting concurrent clinical usage during peak hours.
- Designed AI-driven visualization modules with D3.js and WebGL, consuming Node.js (NestJS) APIs to enable real-time risk analysis for clinicians.
- Delivered multi-tenant appointment scheduling using React and TypeScript, backed by Node.js services with PostgreSQL, improving booking accuracy by 28%.
- Integrated GraphQL and WebSocket streams via NestJS, reducing patient data latency by 35% across monitoring dashboards.
- Implemented secure authentication flows using Auth0, OAuth2, and JWT, ensuring HIPAA-compliant session handling across frontend and backend layers.
- Deployed containerized services on AWS ECS with Docker and CI/CD pipelines via GitHub Actions, cutting release errors by 40%.
- Optimized large clinical datasets using backend caching with Redis and frontend virtualization, improving table rendering performance by 45%.
- Integrated Twilio HIPAA-eligible messaging for appointment reminders, reducing missed visits by 18%.
- Collaborated with product, QA, and medical stakeholders to translate regulatory requirements into compliant technical solutions.
- Mentored junior engineers through code reviews and architectural discussions, improving team velocity and consistency across distributed teams.

Full Stack Developer
Zühlke Engineering, Zürich, Switzerland
March 2016 – February 2020

- Developed real-time patient monitoring interfaces using React and Angular, consuming Django REST APIs for continuous medical sensor ingestion.
- Implemented telemedicine features including video sessions and secure chat using WebRTC and Firebase, improving remote consultation adoption by 32%.
- Reduced dashboard rendering time by 30% through frontend performance tuning and backend pagination strategies.
- Created reusable UI component libraries adopted across multiple healthcare products, accelerating feature delivery by 25%.
- Integrated role-based access controls aligned with backend authorization policies, ensuring GDPR-compliant data exposure.
- Supported backend teams by validating API contracts and improving error handling between Angular clients and Python services.
- Coordinated with cross-functional teams to deliver regulated healthcare features on compressed timelines without compliance regressions.

Frontend Developer
PwC Australia, Australia (Multiple Cities)
August 2012 – February 2016
- Contributed to healthcare analytics dashboards using Angular and Vue.js, connected to PHP-based backend services and SQL databases.
- Implemented responsive, accessible interfaces aligned with WCAG standards, improving usability for hospital administrative staff.
- Enhanced data visualization accuracy using Chart.js integrated with RESTful APIs.
- Assisted in optimizing API consumption patterns, reducing frontend network overhead by 20%.
- Collaborated closely with backend developers to refine data models and API payloads.
- Participated in agile ceremonies, contributing technical insights that improved sprint predictability.
- Supported production releases and defect resolution in enterprise healthcare environments.

Frontend Developer Intern
Cochlear Limited, Sydney, NSW, Australia
January 2012 – July 2012
- Developed internal dashboard components using JavaScript and Angular, backed by enterprise APIs.
- Improved UI consistency and cross-browser compatibility across legacy systems.
- Assisted senior engineers with performance profiling and interface refinements.
- Operated within strict security and compliance requirements typical of regulated medical environments.

Key Strengths

- **Frontend Expertise**: React, Next.js (SSR, ISR), Angular (RxJS, NgRx), Vue 3 (Composition API, Pinia), TypeScript, Tailwind CSS, Storybook, D3.js, Recharts, WCAG 2.1
- **AI & Real-Time Integration**: Developed AI dashboards, patient portals, and real-time data systems with HIPAA/GDPR compliance.
- **Enterprise & Cloud Applications**: Experienced in large-scale systems, performance optimization, and cloud-ready frontend solutions.
- **Team Collaboration & Mentorship**: Worked with international teams, mentoring junior developers and delivering secure, user-friendly platforms.

Technical Skills

- **Frontend:** React, Next.js (SSR, ISR), Angular (RxJS, NgRx), Vue 3 (Composition API, Pinia), TypeScript, Tailwind CSS, Storybook, D3.js, Recharts, WCAG 2.1
- **Backend:** Node.js (NestJS, Express), PHP (Laravel), REST, GraphQL, WebSockets, OAuth2, JWT, background workers
- **Databases:** PostgreSQL, MySQL, SQL Server, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud & CI/CD:** AWS (ECS, RDS, S3, CloudFront), GCP (Cloud Run, Pub/Sub), Docker, GitHub Actions, Terraform, Datadog, Sentry
- **Healthcare & Integrations:** Auth0, Twilio (HIPAA), Stripe, Firebase, HL7, FHIR, SMART-on-FHIR

Education

University of Sydney, Sydney, NSW, Australia
June 2008 - March 2012

Bachelor of Science in Computer Engineering