

# FABRIZIO ROSARIO MORONE

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Senior Software Engineer with 11+ years of experience delivering scalable, secure healthcare platforms across Australia, Europe, and Asia. Specialization in modern frontend ecosystems and backend service development using JavaScript and Ruby stacks. Proven record improving performance, reliability, and regulatory compliance in HIPAA- and GDPR-aligned environments. Experienced in cloud-native architectures, real-time systems, and third-party integrations supporting clinical workflows. Trusted contributor to architectural decisions, mentoring, and cross-functional delivery.

## Professional Experience

Senior Full Stack Engineer

**Andersen, Warsaw, Poland**

*March 2020 – present*

- Modernized multi-tenant healthcare portals using React and Next.js with Node.js (NestJS) APIs, improving initial load performance by 60% and supporting thousands of concurrent clinical users.
- Architected real-time patient dashboards using React, WebSockets, and Node.js services, reducing data refresh latency by 40% for time-sensitive monitoring workflows.
- Delivered appointment scheduling and patient intake flows using Next.js, TypeScript, and Ruby on Rails APIs, increasing successful booking completion by 28%.
- Integrated GraphQL gateways backed by Node.js and Ruby on Rails, streamlining frontend data consumption and cutting over-fetching by 35%.
- Implemented secure authentication and authorization using Auth0, JWT, and role-based policies, eliminating unauthorized access incidents across regulated healthcare environments.
- Connected third-party services including Twilio for HIPAA-compliant messaging and Firebase for real-time notifications, improving patient engagement response times by 25%.
- Optimized SQL and NoSQL access patterns across PostgreSQL and MongoDB, reducing average API response times by 30% during peak operational hours.
- Deployed containerized services to AWS ECS with CI/CD pipelines, lowering deployment failures by 40% and shortening release cycles by 45%.
- Implemented monitoring and alerting with Datadog and Sentry, accelerating incident detection and reducing mean resolution time by 50%.
- Led cross-functional collaboration with product, QA, and clinical stakeholders, aligning frontend and backend delivery while mentoring junior engineers and improving team velocity by 20%.

FullStack Developer

**Zühlke Engineering, Zürich, Switzerland**

*March 2016 – February 2020*

- Developed real-time patient monitoring interfaces using React and Angular integrated with Node.js (Express) APIs, enabling live visualization of medical sensor data.
- Delivered telemedicine features including video consultations, secure chat, and document exchange using Angular and Ruby on Rails services, increasing remote visit adoption by 32%.
- Coordinated closely with backend engineers to evolve REST APIs in Node.js and Ruby, reducing frontend integration defects by 30%.
- Improved dashboard rendering performance through RxJS stream optimization and React memoization, cutting render times by 45% for large patient datasets.
- Implemented granular access controls aligned with backend authorization rules, supporting doctors, nurses, and administrators in regulated environments.
- Supported cloud deployments on AWS and GCP using Dockerized builds and automated pipelines, reducing environment-related issues by 40%.
- Partnered with clinicians and product owners to translate regulatory and usability requirements into compliant, user-centered solutions.

Frontend Developer

### **PwC Australia, Australia (Multiple Cities)**

August 2012 – February 2016

- Contributed to healthcare analytics dashboards using Angular and Vue.js connected to Node.js (Express) backend services.
- Developed responsive, accessible interfaces for clinical and administrative users, improving usability audit scores across enterprise platforms.
- Collaborated with backend teams delivering Ruby on Rails APIs, ensuring consistent data validation and error handling across systems.
- Implemented data visualization components with Chart.js powered by SQL-backed services, improving insight delivery for patient metrics.
- Participated in Agile ceremonies and cross-team reviews, strengthening communication and accelerating feature delivery timelines.
- Applied modular frontend architecture and reusable components, reducing long-term maintenance effort across shared applications.
- Supported secure deployments to cloud-hosted environments, aligning UI delivery with enterprise security standards.

Frontend Developer Intern

### **Cochlear Limited, Sydney, NSW, Australia**

January 2012 – July 2012

- Developed internal enterprise UI components using Angular and JavaScript integrated with Node.js backend services.
- Delivered operational dashboards supporting network and support teams, improving visibility into system performance metrics.
- Enhanced cross-browser compatibility and frontend performance for legacy applications under strict compliance constraints.
- Collaborated with senior engineers to align UI behavior with backend service contracts and security requirements.
- Gained hands-on experience operating within regulated, large-scale healthcare and medical device 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.js (Composition API), TypeScript, JavaScript, HTML5, CSS3, Tailwind, Storybook, D3.js, Recharts, WebSockets, Accessibility (WCAG 2.1)
- **Backend:** Node.js (NestJS, Express), Ruby on Rails (ActiveRecord, Sidekiq), REST APIs, GraphQL, OAuth2, JWT, Background Jobs, Real-Time Services
- **Databases:** PostgreSQL, MySQL, SQL Server, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud & CI/CD:** AWS (ECS, RDS, S3, CloudFront), GCP (Cloud Run, Pub/Sub), Docker, CI/CD Pipelines, GitHub Actions, Monitoring and Alerting
- **Healthcare & Integrations:** Auth0, Twilio (HIPAA), Firebase, Stripe, HL7, SMART-on-FHIR, Third-Party API Integrations

## **Education**

**University of Sydney, Sydney, NSW, Australia**

*June 2008 - March 2012*

Bachelor of Science in Computer Engineering