

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.

Specialized in React, Angular, Vue, Next.js with C#/.NET and Java-based backend services supporting high-availability clinical systems.

Proven success improving performance, scalability, and compliance within HIPAA- and GDPR-regulated environments. Experienced in cloud-native deployments on AWS and Azure, CI/CD automation, and real-time healthcare data pipelines.

Professional Experience

Senior Full Stack Engineer

Andersen, Warsaw, Poland

March 2020 – present

- Improved patient dashboard load times by 62% using Next.js SSR and React hooks, supporting high-concurrency clinical workflows.
- Implemented AI-driven visualization modules with D3.js consuming ASP.NET Core APIs, enabling real-time clinical risk analysis.
- Designed multi-tenant scheduling interfaces with React and TypeScript, backed by C# services using Entity Framework and SQL Server.
- Reduced API response latency by 35% by optimizing Spring Boot REST services and introducing Redis caching layers.
- Integrated GraphQL gateways with Java Spring Boot microservices, improving data aggregation reliability across patient systems.
- Implemented Auth0-based authentication with OAuth2 and JWT, ensuring HIPAA-compliant access control across frontend and backend.
- Deployed containerized .NET and Java services to AWS ECS and Azure App Services, reducing deployment incidents by 40%.
- Integrated Twilio HIPAA-compliant messaging for appointment reminders, decreasing no-show rates by 18%.
- Established CI/CD pipelines using GitHub Actions and Azure DevOps, accelerating release cycles by 30%.
- Mentored junior engineers through architectural reviews and cross-team collaboration, improving delivery predictability and code quality.

Full Stack Engineer

Zühlke Engineering, Zürich, Switzerland

March 2016 – February 2020

- Developed real-time patient monitoring dashboards using React and Angular, consuming Java Spring Boot APIs for live sensor data.
- Implemented telemedicine workflows with secure video and messaging integrations via Firebase, increasing remote consultations by 32%.
- Reduced frontend rendering time by 30% through component optimization and backend pagination strategies.
- Created reusable UI component libraries adopted across multiple healthcare products, improving consistency and development speed.
- Integrated role-based access controls aligned with C#/.NET authorization policies, ensuring GDPR-compliant data visibility.
- Collaborated with backend teams to refine API contracts and error handling between Angular clients and Java services.
- Coordinated cross-functional teams to deliver regulated healthcare features under strict compliance timelines.

Frontend Developer

PwC Australia, Australia (Multiple Cities)

August 2012 – February 2016

- Contributed to healthcare dashboards using Angular and Vue.js, integrated with C#/.NET backend services and SQL databases.
- Implemented responsive, accessible interfaces aligned with WCAG standards for hospital administrative platforms.
- Enhanced data visualization accuracy using Chart.js integrated with RESTful APIs.
- Supported backend teams by validating API payloads and improving frontend error handling patterns.
- Assisted with performance tuning of ASP.NET-based endpoints, reducing frontend load delays by 20%.
- Participated in agile ceremonies, contributing technical insights that improved sprint predictability.
- Supported production releases and issue 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, integrated with enterprise Java-based APIs.
- Improved UI consistency and cross-browser compatibility across legacy systems.
- Assisted senior engineers with performance tuning and interface refinements.
- Operated within strict security and compliance requirements typical of regulated medical environments.

Key Strengths

- **Frontend Expertise:** 11 years with React, Next.js, Angular, Vue, and TypeScript, building high-performance healthcare and IT solutions.
- **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:** C# (.NET, ASP.NET Core, Entity Framework, MediatR, Hangfire), Java (Spring Boot, Spring Security, JPA), REST, GraphQL, WebSockets, OAuth2, JWT
- **Databases:** SQL Server, PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud & CI/CD:** AWS (ECS, RDS, S3, CloudFront), Azure (App Services, API Management, Key Vault), Docker, GitHub Actions, Azure DevOps, 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