

FABRIZIO ROSARIO MORONE

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Senior Software Engineer with 11+ years of experience delivering scalable, secure, and high-performance healthcare platforms across Australia, Europe, and Asia. Deep expertise across modern frontend frameworks and backend service development, with a strong focus on performance, reliability, and compliance. Proven success building HIPAA- and GDPR-compliant systems, real-time data platforms, and cloud-native architectures. Recognized for leading cross-functional teams, mentoring engineers, and driving measurable improvements in delivery quality and system scalability.

Professional Experience

Senior Full Stack Engineer

Andersen, Warsaw, Poland

March 2020 – present

- Modernized patient engagement platform using React and Next.js with Node.js APIs, improving initial load performance by 60% and supporting concurrent usage across multi-tenant healthcare clients.
- Designed AI-driven clinical dashboards with React, D3.js, and Python FastAPI services, enabling real-time risk visualization and reducing clinician decision latency by 35%.
- Implemented secure appointment scheduling and patient workflows using Next.js, TypeScript, and Node.js (NestJS), increasing booking completion rates by 28%.
- Integrated GraphQL and WebSocket services backed by Python FastAPI to stream live vitals and predictions, reducing data refresh latency by 40%.
- Delivered scalable REST APIs with Node.js (Express) and Python FastAPI, supporting FHIR-aligned data models and processing millions of records daily.
- Embedded Auth0 authentication and role-based authorization across frontend and backend layers, strengthening HIPAA compliance and eliminating unauthorized access incidents.
- Deployed containerized services to AWS ECS with CI/CD pipelines in GitHub Actions, cutting release cycles by 45% and improving deployment reliability.
- Optimized SQL and NoSQL data access patterns using PostgreSQL and MongoDB, reducing average API response times by 30% under peak clinical load.
- Implemented observability with Datadog and Sentry across frontend and backend services, accelerating incident resolution by 50%.
- Led architectural reviews and mentored junior engineers, aligning frontend and backend development standards while improving team velocity by 20%.

Full Stack Developer

Zühlke Engineering, Zürich, Switzerland

March 2016 – February 2020

- Delivered real-time patient monitoring dashboards using React and Angular integrated with Python Django REST APIs, enabling live visualization of medical sensor data.
- Developed telemedicine interfaces with secure video, chat, and document workflows, improving remote consultation adoption by 32%.
- Collaborated with backend teams implementing Django and Python FastAPI services, ensuring low-latency data exchange and consistent API contracts.
- Enhanced frontend performance with Angular RxJS optimizations and React memoization, reducing dashboard rendering time by 45% for large patient cohorts.
- Implemented role-based UI rendering aligned with backend authorization models, supporting clinicians, administrators, and support staff securely.
- Supported cloud deployments on AWS using Dockerized frontend builds and CI pipelines, reducing environment configuration issues by 40%.

Frontend Developer

PwC Australia, Australia (Multiple Cities)

August 2012 – February 2016

- Contributed to healthcare analytics dashboards using Angular and Vue.js integrated with Node.js (Express) backend services.
- Developed responsive, accessible interfaces for clinical and administrative users, improving usability scores across internal audits.
- Collaborated with backend engineers delivering REST APIs in Node.js and Python Flask, ensuring consistent data presentation and validation.
- Implemented data visualization components with Chart.js connected to SQL-backed services, improving insight delivery for patient metrics.
- Participated in Agile ceremonies and cross-team reviews, strengthening collaboration and accelerating feature delivery cycles.
- Applied frontend optimization techniques and modular design patterns, reducing maintenance effort across shared UI components.
- Supported secure deployments to cloud-hosted environments, aligning frontend delivery with enterprise security standards.

Frontend Developer Intern

Cochlear Limited, Sydney, NSW, Australia

January 2012 – July 2012

- Developed internal portal components using Angular and JavaScript integrated with Node.js backend services.
- Delivered operational dashboards supporting network and support teams, improving visibility into system health metrics.
- Enhanced cross-browser compatibility and performance for legacy applications under strict compliance requirements.
- Collaborated with senior engineers to align UI components with backend service contracts and enterprise security policies.

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 (Express, NestJS), Python (FastAPI, Django), REST APIs, GraphQL, OAuth2, OIDC, JWT, Background Workers, FHIR-aligned 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, Infrastructure Automation, Monitoring and Logging
- **Healthcare & Integrations:** Auth0, Twilio (HIPAA), Firebase, Stripe, HL7, SMART-on-FHIR, Real-Time Messaging, Third-Party API Integrations

Education

University of Sydney, Sydney, NSW, Australia

June 2008 - March 2012

Bachelor of Science in Computer Engineering