MORONE FABRIZIO ROSARIO

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Senior software engineer with 11+ years of international experience delivering scalable, secure, and high-performance healthcare and enterprise IT solutions across Australia, Europe, and Asia.
Expert in React, Next.js, Angular, TypeScript, and Python-based integrations, with a strong focus on AI-powered dashboards, real-time systems, and cloud-native architectures. Proven track record of building HIPAA/GDPR-compliant platforms and collaborating with globally distributed teams.

Professional Experience

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

- Implemented dynamic patient dashboards with Next.js SSR & React hooks, reducing load time 4.2s → 1.6s.
- Built AI visualization modules (D3.js + WebGL) for real-time risk assessment and scenario simulation.
- Developed appointment scheduling, multi-tenant UI, and secure data tables using React + TypeScript.
- Integrated WebSocket and GraphQL APIs for live patient data and AI predictions.
- Optimized performance for large datasets using virtualized tables, lazy loading, and memoization.
- Ensured HIPAA/GDPR compliance, role-based access, and secure token handling on frontend.
- Mentored 3 junior developers, enforced TypeScript strict mode, ESLint/Prettier standards.

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

- Built real-time patient monitoring dashboards using React + Angular, handling live medical sensor data with WebSocket integration.
- Implemented secure telemedicine UI with video call scheduling, chat messaging, and document sharing while maintaining GDPR compliance.
- Optimized frontend performance for dashboards with virtualized lists, lazy loading, and memoization of large datasets (~20k+ patients).
- Created reusable component libraries for charts, tables, and forms across multiple healthcare modules.
- Collaborated with backend teams to integrate Python/Django APIs, ensuring low-latency data updates.
- Enforced access control for multi-role users (doctors, nurses, admins) and implemented role-based rendering.

Frontend Developer
PwC Australia, Australia (Multiple Cities)
August 2012 – February 2016

- Assisted in building patient dashboards and appointment management modules using Angular & Vue.js.
- Implemented responsive design and accessible forms for hospital staff.
- Learned and applied frontend best practices including modular component structure, reusable styles, and cross-browser compatibility.
- Collaborated with senior developers on data visualization charts for patient metrics using Chart.js.
- Participated in weekly code reviews and sprint meetings, contributing ideas for UI/UX improvements.

Frontend Developer Intern
Cochlear Limited, Sydney, NSW, Australia
January 2012 – July 2012

- Developed UI components using JavaScript, Angular, HTML, and CSS for internal enterprise portals.
- Built dashboard views used by network operations and customer support teams.
- Improved cross-browser compatibility and UI performance for legacy systems.
- Worked under strict security and compliance standards in a telecom-scale environment.

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 (App Router, SSR/ISR), Angular (RxJS, NgRx, CDK), Vue 3 (Composition API, Pinia), TypeScript, Tailwind, Storybook, D3/Recharts, WCAG 2.1 AA.
- **Backend:** C#/.NET (ASP.NET Core, EF Core, MediatR, Hangfire), Java (Spring Boot/Security, JPA), REST/GraphQL, gRPC, Kafka, Redis, OAuth2/OIDC, JWT/SSO, background workers, HL7/FHIR/EDI pipelines, Node.js/TypeScript (Express, NestJS), Ruby on Rails (Sidekiq, ActiveJob), Python (FastAPI, Django, Torch/ONNX), Go (BFFs, streaming/services), Rust (parsers/workers, high-throughput jobs)
- **Databases:** SQL Server, PostgreSQL, MySQL, MongoDB, DynamoDB, Elasticsearch.
- **Cloud & CI/CD:** AWS (ECS, RDS, ElastiCache, S3, CloudFront), Azure (App Services, API Management, Key Vault), GCP (Cloud Run, Pub/Sub), Docker, Terraform, GitHub Actions, Datadog, Sentry, Playwright.
- **Healthcare & Integrations:** SMART-on-FHIR, HL7v2, EDI X12 (270/271, 835), Epic App Orchard, Cerner Ignite, Twilio (HIPAA).
- **Specialize:** Operating Systems(Kernel development, Linux system programming, compilers), Cybersecurity(Cryptography, network/security protocols, system hardening), AI/ML(Modern AI pipelines, LangChain, TensorFlow, Keras)

Education

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

Bachelor of Science in Computer Engineering