

AI Implementation Engineer | Full-Stack (Next.js & TypeScript)

North Carolina, USA | Greece | Remote • grcodes@outlook.com • 813-270-5693 • www.giannisroussos.com • linkedin.com/in/giannisr

Profile Summary

Engineering-focused former Special Forces Officer and ICU RN specialized in bridging clinical workflows with **HL7 FHIR R4 architectures**. High-velocity builder: shipped **30+ projects in 90 days** [cite: 2026-03-10], including a flagship **AI Clinical Context Agent** with RAG and model fallback chains. Expert in building resilient, HIPAA-compliant systems for high-stakes environments.

Technical Expertise

Languages/Frameworks: TypeScript, JavaScript (ES6+), React 19, Next.js 15+, Node.js, Python.

.AI & Data: Vercel AI SDK, LLM Orchestration (Gemini, Claude), RAG, Supabase (pgvector), PostgreSQL, Axios.

Infrastructure: AWS (App Runner, EC2, S3), Redis, Git/GitHub, CI/CD, REST & GraphQL APIs.

HealthTech: HL7 FHIR R4, Interoperability (Epic/Cerner workflows), HIPAA-compliant Architecture.

Technical Residency (Selected Builds)

- **AI Clinical Context Agent:** Architected a Gemini/Gemma fallback chain for 99.9% clinical uptime; developed semantic RAG using Supabase pgvector and PubMed literature grounding.
- **Interoperability:** Built a real-time FHIR R4 Explorer to ingest and normalize data from public HAPI FHIR servers.
- **Clinical Telemetry Gateway:** Engineered an Express/AWS proxy for HL7 FHIR R4 aggregation; reduced client overhead by 30% via backend resource transformation.
- **Visualization:** Developed a Next.js dashboard featuring SVG waveform rendering for critical telemetry.
- **Skinstric Biometric UI:** Engineered a state-of-the-art clinical capture UI using **MediaPipe BlazeFace**; implemented a 36-segment interactive feedback loop for precise biometric positioning.
- **Product Delivery:** Translated complex medical charting requirements into a secure, high-performance Next.js dashboard.

Professional Experience

Critical Care & Emergency RN | Multiple Employers | 2017 – Present

- Executed technical troubleshooting for EHR systems (Epic/Cerner) across 15+ facilities to ensure zero-latency clinical data delivery. Managed life-critical care in high-pressure ICU/ER environments.

Operations & Leadership | InterFACE / DriveTime / Disney | 2001 – 2015

- Managed 7 locations, increasing profitability by 17% through data-driven leadership. Executed world-class service standards at Walt Disney World.

Education & Languages

- **FES: Software Engineering | Univ. of West Florida: B.S. Nursing | Oakland Univ: B.S. HR Mgmt**
- **Languages: Greek, English, German, French, Spanish.**