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Professional Summary

Senior Software Engineer with 8+ years of experience architecting scalable full-stack applications in TypeScript, React, and Node.js. Proven track record of leading cross-functional engineering teams to deliver HIPAA-compliant healthcare platforms serving thousands of daily users. Strong expertise in AWS cloud infrastructure and modernizing legacy architectures.

Core Stack: TypeScript, Next.js, Node.js, React Native, AWS

Professional Experience

NewCombin | Technical Lead

(2024 - present)

- Directed cross-functional teams of 3–6 engineers, establishing strict CI/CD pipelines with SonarQube and automated PR reviewers to enforce high test coverage and reduce incident reports.
- Spearheaded organization-wide AI initiatives by driving the adoption of Cursor and AI-driven workflows (agents/skills), accelerating the Software Development Life Cycle (SDLC) by an average of 25%.
- Architected an automated, event-driven document processing pipeline using AWS Lambda, S3, DynamoDB, and Algolia, optimizing ECS infrastructure to reduce monthly AWS cloud costs by 30%.
- Engineered a web-based, OBS-style live streaming module from scratch using NestJS and Vue, orchestrating an Nginx/FFmpeg engine to ingest WebRTC/RTMP sources and broadcast to platforms like Twitch.

Thrivelab | Senior Full Stack Developer

(2024)

- Architected and launched a greenfield mobile application using React Native and Expo, scaling to a peak of 3,000 Daily Active Users (DAU), and collaborated with marketing to optimize Next.js web funnels, increasing lead conversion by 15%.
- Engineered strict, HIPAA-compliant backend data pipelines in NestJS, establishing Zoho CRM as the secure single source of truth for all patient metrics and Personal Health Information (PHI).
- Designed data-anonymization architectures to safely leverage non-HIPAA-compliant third-party services (like Firebase) for real-time app features without exposing Personally Identifiable Information (PII).

GBH | Senior Software Engineer

(2021 - 2023)

- Engineered a fault-tolerant asynchronous messaging pipeline using Express.js and AWS SQS to reliably sync 2,000+ daily app test requests to an unstable legacy EHR, eliminating data loss and supporting a regional business volume of 10,000+ daily transactions.
- Architected a real-time React Native and React logistics suite connecting a client-facing patient app with a phlebotomist dashboard to track field queues, locations, and strict SLA compliance.
- Spearheaded the migration of legacy frontend applications from AngularJS to React with TypeScript, and implemented Domain-Driven Design (DDD) in Node.js to enforce clean architecture and boost developer productivity.
- Engineered a secure, client-facing mobile application from scratch for a major Dominican pension fund (AFP Crecer) using Xamarin, providing users with a reliable platform to manage and track their retirement assets.

A&B | Full Stack Mobile Application Developer

(2018 - 2020)

- Engineered and launched a flagship mobile Point-of-Sale (POS) MVP from scratch using Xamarin, .NET Framework, and SQL Server on Azure, successfully establishing a net-new software division for the company.
- Architected the integration of a major US payment processor into the core POS software, helping the company secure official accreditation as a US payment provider and scaling the system to support thousands of active businesses.
- Developed low-latency hardware integrations for external card readers and thermal printers via Bluetooth and Ethernet SDKs, enabling seamless, reliable on-site transaction processing.

Technical Skills

- Languages: TypeScript, JavaScript, Go, Python, C#
- Frontend: React, Next.js, React Native, Tailwind CSS, Radix UI/shadcn
- Backend: Node.js, NestJS, Express, Django, FastAPI, Laravel, .NET Core, Chi
- Databases & Queues: PostgreSQL, MySQL, MongoDB, Redis, BullMQ, DynamoDB, NATS
- Cloud & DevOps: AWS (EC2, RDS, SQS, AppSync, AppRunner, etc.), Docker, CI/CD, GitHub Actions
- Security & Compliance: HIPAA Standards, PHI Data Protection, OWASP

Education

Gerardo Barrios University | El Salvador

Bachelor's in Systems Engineering and Computer Networks