MARK GUERRERO

Senior Full-Stack Software Engineer | React Native, React, Next.js, TypeScript, Node.js, C#/.NET
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Summary

Senior full-stack engineer specializing in React Native and TypeScript on Node.js and .NET. Architected two greenfield React Native apps at New York Blood Center, including Donor Plus, live with 10,000 registered users. Built real-time updates across web and mobile and offline-first sync, and cut Trip API load time from about 3 seconds to under 500ms. Writes tests for every feature and owns releases, SDK upgrades, and architecture docs.

Experience

NEW YORK BLOOD CENTER | May 2024 – Present
Senior Full-Stack Software Engineer
Full-stack engineer on a team of 3 developers and 2 QA engineers building two greenfield platforms, Donor Plus and Dispatch IQ, on React Native, TypeScript, Node.js, C#/.NET with Entity Framework, SQL Server, and OAuth. Own the functional design and key technical decisions.

- Delivered Donor Plus, live for over a year with 10,000 registered users, and its admin portal.
- Designed real-time updates for Dispatch IQ (50 to 100 drivers, now in UAT): SignalR broadcasts each change, such as a driver status update, and React Query refreshes web and mobile screens instantly. Azure Functions with Expo Push send push notifications.
- Built offline-first support with SQLite caching, background sync, and optimistic UI for drivers in low-signal areas.
- Brought Trip API load time from about 3 seconds to under 500ms by tracing slow mobile calls to an N+1 query in the Entity Framework logs and rewriting it with joins, projections, and pagination.
- Streamlined the photo flow from 5 taps to 3, brought camera launch under one second, and sped up signature uploads with parallel Azure Blob uploads.
- Cut duplicate photo and signature records from roughly 1 in 7 uploads to fewer than 1 in 100 by adding idempotency keys.
- Test with Jest and React Native Testing Library (unit and UI), Playwright (web and API end-to-end), and Postman (API), and fixed the failing Playwright suite.
- Stepped in to lead the team through a tight-deadline release, building the backlog, defining requirements, and assigning work.
- Own the dev infrastructure (Expo SDK and .NET upgrades, CI/CD, EAS Build and Submit to the App Store and Google Play) and wrote the onboarding architecture docs.

NUTRIEN | Jul 2021 – Apr 2024
Software Engineer, React / React Native (Contract)
Delivered features across UnifiedHub, a React, React Native, and Next.js monorepo on Node.js and GraphQL, used by farmers, crop consultants, and internal e-commerce teams.

- Simplified and sped up the product search, cart, and checkout screens by eliminating unnecessary re-renders, lazy-loading noncritical data, and caching branch and sales data.
- Brought seed and crop-input ordering into the mobile app so farmers could calculate how much they need against available inventory and order from the field.
- Shipped features and fixes in the Simplified Work Order and Sales Document Work Order flows with backend, design, and product teams.
- Resolved production GraphQL and UI bugs by refactoring custom Material UI and Bonsai components, which sped up later feature work.

BOOM FANTASY | Dec 2020 – Jul 2021
Senior Software Engineer, React / React Native (Contract)
Owned the admin tools behind contests and promotions for Predictor, NBC Sports, and Barstool Sports games, using React, React Native, Next.js, Node.js, Jest, Postman, and Kubernetes.

- Rewrote the legacy Predictor admin from scratch in React and Next.js, giving the internal contest team one simple flow to set up contests, dates, and rules.

- Launched contest creation in the new admin, which made contests easier to run and helped lift daily active players 15%.
- Cut cross-product content updates from 20–30 minutes to 5–10 minutes with a new content-saving system.
- Wrote a generator that creates live-feed schemas from selection criteria.

HCA HEALTHCARE | Jan 2019 – Dec 2020
Senior Full-Stack Software Engineer
Led a team of 3 developers modernizing two legacy healthcare apps handling HIPAA-protected medical records, using React, Redux, Material UI, React Native, Node.js, GraphQL, SQL Server, and C#/.NET.
- Moved Patient Tracker to React Native on a GraphQL backend with Redis caching (API responses from 198ms to 10ms). The new tracker helped cut patient wait times from about 35 minutes to 5.
- Halved patient registration time by moving Virtual Registration to React Native with a single intake flow.
- Redesigned how patient-tracking data stays in sync for the care-coordination team.

STRATFS | Jun 2018 – Jan 2019
Lead Full-Stack Software Engineer (Contract)
Led a team of 3 developers moving legacy C#/.NET apps onto Node.js microservices.
- Cut server response times from 2–5s to 200–350ms with the new microservices.
- Shortened QA deployments from about an hour to under 30 minutes by introducing Jenkins CI/CD with parallel pipelines, build caching that skipped unnecessary rebuilds, and fail-fast checks.
- Moved the team from SVN to GitHub and onto Heroku, Box, and OAuth.
- Co-built a .NET and Node.js sales tool for 10 to 15 reps that cut presentation prep from 30 minutes to 10.
- Built a React and Socket.IO app that displays images and PDFs live during sales presentations.

SCHLESINGER GROUP | Aug 2015 – Jun 2018
Senior Full-Stack Software Engineer
Worked across SAMS (the company's C#/.NET and SQL Server platform for projects and recruiting), its mobile app, and the company website. Learned React on side projects, then introduced it to the team as the replacement for AngularJS.
- Migrated the mobile app from Angular to React Native.
- Created the shared component library (React, Redux, Material UI, Styled Components) that later products were built on.
- Integrated the OnDemand QualBoard API with no downtime, and built a reusable setup template that cut new-project configuration from 45 minutes to 15.
- Led the migration of every IIS-hosted web app to Azure, reworked the integrations that didn't carry over, and trained and mentored the offshore teams.
- Ran the US and EU platform rebrand and localization, including email templates, UI strings, and notifications.

Skills

Languages: TypeScript, JavaScript, C#, SQL, HTML, CSS
Mobile & frontend: React Native, Expo, React, Next.js, Redux, React Query, Angular, Material UI, Bootstrap
Backend & APIs: Node.js, ASP.NET, .NET Core, Entity Framework, Web API, GraphQL, REST, SignalR, Socket.IO
Data: SQL Server, SQLite, PostgreSQL, MongoDB, Redis
Cloud & DevOps: Azure (Functions, Blob, Key Vault), AWS, Heroku, Docker, Kubernetes, GitHub Actions, Jenkins, Git
Testing: Jest, React Native Testing Library, Playwright, MSW, Postman, NUnit, Selenium, Moq
Debugging: Chrome DevTools, React Native Debugger, Wireshark, SQL Server Profiler
AI-assisted development: Claude with Figma MCP, ChatGPT
Practices: HIPAA-compliant data handling, Agile / Scrum, TDD, BDD, domain-driven design, responsive design

Education

Saint Louis University, Baguio City, Philippines | Bachelor's degree in Information Technology
The Chubb Institute, Parsippany, NJ | Diploma in Database Administration
Udacity | React Developer Nanodegree; Front End Web Developer Nanodegree