

DANIEL WHITE

Senior Full-Stack Engineer | Software Architect

React & React Native | TypeScript, GCP, Node.js, MySQL, PostgreSQL, Go | Backend, AI, Cloud & Distributed Systems

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PROFILE SUMMARY

Senior Full-Stack Engineer with 14+ years of experience building and supporting web, mobile, and cloud products. I work comfortably across the stack, with much of my recent work focused on Node.js APIs, backend services, data ingestion, and scalable cloud systems on GCP. I enjoy taking complex, loosely defined problems and turning them into reliable software that teams can maintain. My background spans healthcare, automotive, hospitality, blockchain, supply chain, and AI, with ownership from early architecture and hands-on development through launch, production support, and long-term improvement. I also value mentoring engineers and working closely with product, design, QA, and business teams.

CORE COMPETENCIES

- Experienced in full-stack engineering, backend development, system design, software architecture, and scalable SaaS products
- Advanced in React, React Native, Next.js, TypeScript, JavaScript, reusable components, and design systems
- Skilled in Go, Node.js, PHP, Laravel, REST APIs, gRPC, microservices, serverless computing, and event-driven architectures
- Built Node.js backend services, REST APIs, serverless functions, integrations, and SQL data workflows using BigQuery, PostgreSQL, and MySQL
- Hands-on with GCP and Firebase, including Cloud Functions, Pub/Sub, Cloud Storage, Scheduler, and Authentication
- Expertise in Generative AI, LLM applications, RAG, agentic AI, tool calling, embeddings, and semantic search
- Adept at automated testing, CI/CD quality gates, observability, production troubleshooting, and root-cause analysis
- Proven technical leadership through architecture reviews, code reviews, mentoring, documentation, and engineering standards
- Strong cross-functional delivery across product, design, QA, backend, platform, analytics, and business stakeholders

SKILLS HIGHLIGHTS

- | | | |
|-------------------------------------|---|--|
| • Frontend Application Development | • Backend Service Development | • Cloud Application Deployment |
| • CI/CD Pipeline Implementation | • RESTful API Development | • Serverless Application Development |
| • Cross-Platform Mobile Development | • PostgreSQL, MySQL & BigQuery | • Third-Party API Integrations |
| • State Management & Data Fetching | • Authentication & Authorization | • Application Performance Optimization |
| • Scalable Application Architecture | • Legacy Application Modernization | • Secure Software Development |
| • Agile Product Development | • Code Review & Engineering Mentorship | • Debugging & Root-Cause Analysis |
| • Accessibility & Responsive Design | • Feature Planning & Technical Estimation | • Production Release & Support |

PROFESSIONAL EXPERIENCE

FUTURHEALTH

Senior Full-Stack Engineer

Remote / United States

Jun 2024 - Jun 2026

- Led architecture planning for a Go-based MSO Gateway, unifying multiple medical service organizations.
- Built production web and mobile experiences using React, React Native, Next.js, and TypeScript.
- Designed Node.js and Go REST APIs plus event-driven GCP services using Firestore and Pub/Sub.
- Built a BigQuery ingestion pipeline using SQL to map external MSO provider prescription records into the internal data model, resolving fragmented data across organizations and supporting patient, provider, and medication workflows.
- Developed patient, provider, medication, and healthcare workflows using reusable, accessible frontend components.
- Diagnosed distributed production issues using Datadog, Sentry, PostHog, Firebase, and telemetry tools.

Key Accomplishments:

- Increased React Native automated test coverage from 8% to 25% very rapidly.
- Designed CI/CD quality gates validating tests, mutation coverage, linting, and engineering standards.

REPUBLIX / CENTENE CORPORATION

Senior Software Engineer - Contract

United States

Oct 2023 - May 2024

- Led Fondue RN development, creating Ambetter Health's reusable React Native design system.
- Translated complex Figma designs into accessible, responsive, production-ready React Native interface components.
- Designed reusable component APIs emphasizing composition, maintainability, accessibility, and consistency standards.
- Built customer-facing mobile experiences while mentoring engineers and strengthening code-quality engineering standards.

Key Accomplishments:

- Established shared design-system foundations and frontend engineering standards for Ambetter Health teams.
- Improved frontend scalability through reusable, themeable components and standardized accessibility engineering practices.

BOTTLE ROCKET STUDIOS

Lead Software Engineer - Contract

United States

Jan 2023 - Jul 2023

- Built Culver's POS features using Next.js, React, TypeScript, Redux Toolkit, and Tailwind.
- Developed responsive operational interfaces and reusable architecture for maintainability and application performance.
- Implemented state management, API communication, caching, and asynchronous workflows using Redux Toolkit.
- Built and maintained Laravel/PHP backend functionality backed by MySQL and SQL queries for Marriott's hotel rewards program.

Key Accomplishments:

- Delivered production functionality across restaurant and hospitality platforms using modern and legacy stacks.
- Strengthened maintainability through reusable architecture, code reviews, mentoring, and internal technical presentations.

AUTONOMY

Senior Software Engineer

- Built major Autonomy.com features across Next.js and React frontends, Node.js backend integrations, gRPC, and external APIs.
- Created an automated vehicle check-in system using Next.js, Node.js, PostgreSQL, and SQL.
- Developed customer workflows for vehicle discovery, reservations, onboarding, accounts, and subscription management.
- Integrated reusable React interfaces with gRPC APIs across critical customer subscription workflows.

Key Accomplishments:

- Delivered customer-facing EV subscription journeys from discovery through onboarding and account management.
- Improved acquisition and conversion visibility through integrated analytics and attribution technology platforms.

United States

Oct 2021 - Dec 2022

REAL ITEMS

Senior Software Engineer

- Built full-stack SaaS applications supporting product authentication, provenance, and supply-chain transparency workflows.
- Designed administrative dashboards for digital assets, product management, authentication, and supply-chain operations.
- Developed reusable interfaces making blockchain and supply-chain information accessible to nontechnical users.
- Designed Node.js APIs and SQL-backed services connecting web applications, blockchain, and enterprise software systems.

Key Accomplishments:

- Delivered scalable blockchain solutions strengthening product authentication, provenance, and counterfeit prevention.
- Improved blockchain data usability through intuitive dashboards for administrative business users.

United States

Jun 2020 - Jul 2021

422 STUDIOS

Founder & Chief Technology Officer / Lead Software Engineer

- Founded and operated a software agency delivering SaaS, web, mobile, and cloud solutions.
- Architected products from discovery through development, deployment, monitoring, and scalable production support.
- Built full-stack applications and backend services using Node.js, Laravel, PHP, MySQL, and SQL.
- Designed dashboards, portals, customer applications, and internal tools emphasizing performance and usability.
- Translated client business challenges into technical requirements, user flows, roadmaps, and architectures.

Key Accomplishments:

- Operated a software consultancy for eight years while remaining hands-on across engineering leadership.
- Maintained long-term client relationships through product development, optimization, modernization, and ongoing support.

United States

Jan 2012 - May 2020

PROJECTS

EMET INTERACTIVE - AI-Powered Bible Study & Christian Community Platform

Founder / Principal Software Architect & Engineer

- Architected mobile and web applications using React Native, Next.js, GCP, and Firebase.
- Built an AI Bible Assistant supporting contextual scripture, history, languages, and passage exploration.
- Built Node.js/TypeScript AI automation and event-driven backend services using Cloud Functions and Pub/Sub.

Key Accomplishments:

- Launched mobile applications processing 500,000+ monthly scripture requests.
- Secured publisher relationships and technical implementation supporting numerous officially licensed Bible translations.

emetfaith.com

Selected Project

INTEGRITY SYSTEMS - AI-First Autonomous Software Engineering Platform

Principal Architect / AI Engineering

- Architected an agentic engineering platform enabling autonomous planning, implementation, testing, review, and delivery.
- Designed persistent context engineering with 200+ specifications, standards, patterns, and agent skills.
- Connected Trello and Cursor agents, transforming tickets into code, tests, and pull requests.
- Built AI-powered QA and CI/CD validation using Jest, Playwright, and GitHub Actions.

Key Accomplishments:

- Increased engineering velocity while preserving architecture, testing, standards, and essential human oversight.
- Created a 200+ document context-engineering knowledge base supporting autonomous software development delivery.

integrityus.ai

Selected Project

TECHNICAL / SOFTWARE SKILLS

TypeScript | JavaScript | Go / Golang | Node.js | SQL | MySQL | PostgreSQL | PHP | Laravel | HTML5 | CSS3 | React | Next.js | React Native | Expo | Ionic | Vue.js | Vite | Redux Toolkit | RTK Query | Tailwind CSS | Material UI | REST APIs | gRPC | Microservices | Google Cloud Platform (GCP) | BigQuery | Firebase | Cloud Functions | Firestore | Pub/Sub | Cloud Storage | Cloud Scheduler | Firebase Authentication | Pinecone | Algolia | Generative AI | LLM Applications | OpenAI APIs | Anthropic Claude | RAG | AI Agents | Agent Orchestration | Tool Calling | Structured Outputs | Context Engineering | Prompt Engineering | AI Guardrails | Vector Embeddings | Semantic Search | Jest | Playwright | Maestro | Stryker | GitHub Actions | CI/CD | Git | GitHub | Datadog | Sentry | PostHog | System Design | Software Architecture | Distributed Systems | Serverless Architecture | Event-Driven Architecture