

Will Forbes

Backend-Focused Full Stack Engineer | Node.js • TypeScript • PostgreSQL • AWS

Remote | Based in Southern California

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Engineer with 7 years of experience designing and scaling backend and full-stack systems that simplify complexity and drive measurable business impact. Skilled in modernizing architectures, consolidating microservices, and optimizing cloud infrastructure for reliability, cost, and performance. Known for translating technical challenges into practical, scalable solutions that improve uptime, reduce costs, and accelerate team velocity. Active U.S. DoD Secret Security Clearance.

PROFESSIONAL EXPERIENCE

Lead Application Developer | Russell Sigler, Inc, Remote Jan 2023 – Present

- Consolidated 23 microservices into a unified modular monorepo, reducing deployment time by 40% and accelerating release cycles across engineering teams.
- Designed and implemented an event-driven enterprise notification engine (Express.js, Next.js) serving 500+ concurrent users, improving real-time responsiveness and workflow efficiency.
- Spearheaded a full infrastructure migration from AWS to on-prem hardware, cutting hosting costs by 80%+ (\$20K/month savings) while maintaining 99.9% uptime across 18 containerized services.
- Revitalized development velocity by resolving 100+ critical backlog issues and launched a new triage workflow that reduced bug turnaround time by 60% and restored stakeholder confidence.

Programmer II | JT4, LLC (NGDC), Edwards AFB, CA Mar 2022 – Jan 2023

- Modernized a legacy C#/WPF desktop system by developing a Vue 3 and Quasar-based web platform, enabling multi-tenant access across four U.S. Air Force bases and reducing software deployment time from hours to minutes.
- Reverse-engineered existing codebase to extract core business logic and data models, informing the new architecture and ensuring 100% feature parity and improved maintainability.
- Collaborated with backend and product teams to define clear API contracts for flight test scheduling, improving data accuracy and cross-system synchronization.
- Facilitated weekly sprint planning sessions to align development priorities and improve communication between frontend and backend teams, accelerating release cycles and reducing blockers.

Programmer II | IntegrITS Corp. (416th FLTS), Edwards AFB, CA Jan 2020 – Mar 2022

- Modernized a mission-critical Vue 1.5 application to Vue 2.0, introducing async/await and modular architecture that reduced technical debt by 50% and improved deployment stability for internal Air Force systems.
- Designed a TypeScript-based data access layer that abstracted SharePoint API complexity, allowing frontend engineers to build features independently and cutting development time by 30%.
- Developed a role-based access control (RBAC) admin interface empowering non-technical managers to maintain compliance tracking for over 200 flight test personnel, improving audit readiness and reducing dependency on IT support.

Configuration Specialist | IntegrITS Corp. (412th CS), Edwards AFB, CA Dec 2018 – Jan 2020

- Conducted enterprise-wide security assessments using HP Fortify, identifying and remediating 50+ critical vulnerabilities across 10+ production web applications, strengthening compliance and data protection standards.
- Built and integrated automated test suites for C#/VB.NET applications, increasing test coverage from 10% to 50% and reducing post-deployment defects by 35%, improving release reliability across multiple Air Force systems.
- Established secure coding and QA practices that became part of organization-wide deployment standards.

EDUCATION

(2025) Bachelor of Science, Software Engineering - Western Governor's University

Salt Lake City, UT