

Justin Solitro

FULL STACK SOFTWARE ENGINEER · REACT · TYPESCRIPT · NODE.JS

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Full Stack Software Engineer with 3+ years of professional software experience and an engineering background in manufacturing. Builds and modernizes SaaS products with React, TypeScript, Node.js, Express, and AWS. Proven in performance optimization, cross-stack delivery, customer-facing problem solving, architecture decisions, and production ownership.

CORE STRENGTHS Performance Optimization · Frontend Architecture · Full-Stack Development · Developer Experience · Real-Time Systems · AWS Cloud Applications

TECHNICAL SKILLS

Languages

TypeScript
JavaScript
SQL
Python
PHP

Frontend

React 19
TanStack Query & Router
Zustand
Vite
React Native / Expo

Backend & Testing

Node.js / Express
REST APIs
WebSockets
NestJS
Vitest / MySQL

Cloud & Delivery

AWS EC2, RDS, Lambda
S3, SES
Docker
GitHub Actions / CI/CD
AI tooling / MCP

EXPERIENCE

Software Engineer · **Harmoni Solution, Inc.** Dec 2025 - Present

- **Modernized a 700+ file production React application**, migrating from React 18, Redux, and Redux-Saga to React 19, Vite, Zustand, TanStack Query, and TanStack Router. Split a **1.22 MB monolithic entry bundle** into a **~120 KB entry across 187 chunks**, reduced initial gzipped JavaScript from **1,674 KB to 577 KB (65%)**, and improved desktop FCP from **936 ms to 328 ms (65%)**.
- Designed WebSocket-based fleet notifications for approximately **1,200 CNC devices** deployed in manufacturing environments.
- Owned end-to-end features across four repositories: cloud React frontend, Express backend, embedded device code, and database migrations.
- Built an internal developer CLI that automated environment and credential provisioning through backend APIs, replacing manual configuration across multiple systems with a single command.
- Partnered directly with customers from issue triage through production deployment; contributed code reviews, technology selection, and frontend architecture decisions.
- Built AI-assisted workflows using MCP servers and custom tooling to accelerate debugging, implementation, and repetitive development tasks.

Software Engineer · **Optiwatt** Apr 2024 - Nov 2025

- Unified marketing attribution across channels, reducing customer acquisition cost by **50%** from \$120 to \$60.
- Automated customer incentive delivery through Tremendous and built an AWIN affiliate program to support referral growth.
- Shipped production React features supporting customer acquisition, attribution, and engagement.

Jr. Software Engineer · **Futuri Media** Jan 2023 - Apr 2024

- Built the MVP React frontend for AudioAI (formerly RadioGPT) and PHP middleware connecting core application services.
- Redesigned an NLP article-merging algorithm, improving precision from **7% to 99.9%**.
- Created a regression-based scoring model for trending stories and developed Express APIs integrating AWS and MySQL.
- Maintained a white-label mobile platform through feature work, bug fixes, code reviews, and automated iOS / Android build pipelines.

Quality Engineer · **BSH Home Appliances** Feb 2021 - Dec 2022

- Led production root-cause investigations using Shainin Red-X methods and data analysis to eliminate sources of variation.
- Developed lightweight applications that automated manual engineering workflows and supported quality audits.

Quality Engineer, Nuclear Components · **BWXT** Oct 2017 - Nov 2020

- Managed quality requirements for manufactured nuclear reactor components supporting U.S. Navy programs.
- Built internal data and file-automation tools supporting inspection equipment, CNC manufacturing, performance analysis, and disruption forecasting.

SELECTED PROJECT

Hello Chef

Architected an AI-powered React Native / Expo application with NestJS, JWT authentication, OpenAI function calling, Stable Diffusion image generation, REST APIs, and real-time WebSocket communication. Owned application architecture, implementation, and deployment.

EDUCATION

B.S. Applied Engineering

Kent State University · 2019

Full-Stack Program

The Odin Project