DEVON HILLS

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PROFESSIONAL SUMMARY

Software Engineer with **7+ years of experience** specializing in React, TypeScript, and modern JavaScript development. Expert in building responsive, accessible user interfaces for high-traffic applications serving millions of users. Proven track record in production support, UI/UX optimization, and full-stack development with strong CI/CD expertise in healthcare and government technology solutions. Passionate about continuous learning and building innovative personal projects that expand technical capabilities.

TECHNICAL SKILLS

Frontend Development:
React, TypeScript, JavaScript, HTML5, CSS3, Redux, Next.js, Responsive Design, UI/UX Development, Modern JavaScript (ES6+), Single Page Applications (SPA), Tailwind CSS

Backend & Full-Stack:
Ruby on Rails, Node.js, Python, Flask, RESTful APIs, PostgreSQL, Server-side Development, Database Management, JWT Authentication, OAuth 2.0

Testing & Quality:
Playwright, React Testing Library, Automated Testing, Accessibility Testing (axe-core), WCAG/Section 508 Compliance, Cross-browser Testing

DevOps & Tools:
Git, Jenkins, CI/CD Pipelines, AWS, Build Automation, Production Deployment, Docker, Automated Testing Infrastructure

API Integration & Data:
TMDB API, Grants.gov API, Supabase, SWR, Data Fetching, SEO Optimization, Structured Data (JSON-LD)

Development Practices:
Agile/SCRUM, Test-Driven Development, Code Reviews, Technical Documentation, Performance Optimization, Security Best Practices

Additional Technologies:
Python Automation, AI Integration, Image Processing, C++, Machine Learning Fundamentals

PROFESSIONAL EXPERIENCE

Ad Hoc LLC, Remote | Software Engineer III
Nov. 2021 – Present

- Built and maintained React/TypeScript applications for HealthCare.gov health plan enrollment workflows, serving millions of users during high-traffic enrollment periods

- Redesigned health plan comparison cards using choice architecture principles based on customer feedback and UX research, helping users navigate complex health plan information and improving enrollment completion rates

- Designed and implemented Redux-based state management for dynamic filtering and comparison features, optimizing user experience and application performance under high loads

- Participated in on-call rotation shifts using PagerDuty for 24/7 production support, responding to critical incidents and maintaining system reliability during peak enrollment periods

- Developed comprehensive accessibility testing infrastructure using axe-core and maintained WCAG/Section 508 compliance for government healthcare applications serving vulnerable populations

• Diagnosed and resolved critical frontend bugs affecting health plan enrollment workflows, ensuring minimal downtime during peak open enrollment periods

• Built automated testing suites with Playwright and React Testing Library, including end-to-end user workflow validation and accessibility testing

• Executed complex backend Ruby logic for Medicare eligibility rules and coverage transitions, managing data integrity for user enrollment states and plan selections

• Maintained and optimized Jenkins CI/CD pipelines with AWS cloud infrastructure, led Ruby version and critical gem upgrades, and ensured stable production deployments

• Collaborated with UX researchers, policy experts, and support staff to identify user friction points and implement technical solutions that improved user experience

• Led technical documentation efforts, established coding standards and best practices that improved team velocity and reduced onboarding time

Raytheon Technologies, Tewksbury, MA | Software Engineer
Jul. 2018 - Nov. 2021

• Architected and maintained mission-critical software components using C++, conducting systematic debugging and root cause analysis for complex technical issues

• Led technical documentation initiatives and mentored junior developers, establishing coding standards that improved team productivity and code quality

• Collaborated in cross-functional Agile/SCRUM teams to deliver high-performance applications on schedule while maintaining quality standards

• Acquired a DoD Secret clearance for job duties

PROJECTS & CONTRIBUTIONS

FilmFinder - Movie & TV Discovery Platform
Modern full-stack application built with Next.js 15 App Router, TypeScript, and Supabase backend featuring user authentication, personal watchlists, and TMDB API integration for comprehensive movie and TV discovery with advanced search capabilities.

Etsy Digital Mockup Automation Suite
Python automation tools for Etsy sellers with AI-powered content generation and marketplace integration, utilizing Flask web framework, OAuth 2.0 security protocols, and image processing pipeline for automated product mockup generation.

Government Grant Directory
SEO-optimized directory platform sourcing data from Grants.gov API, implementing structured data markup (JSON-LD) and advanced SEO techniques for enhanced discoverability of small business and nonprofit grants.

Ruby Book Collection Manager
Full-stack web application with Ruby on Rails backend, PostgreSQL database, JWT authentication, and Rails-React integration featuring real-time processing visualization and comprehensive database schema for book collection management.

EDUCATION

University of Massachusetts Lowell, Lowell MA | BS Computer Science
Dec. 2017

• Graduated cum laude

• Achieved Dean's List recognition multiple years