ALANA JANNIELLO

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Security Clearance: Active Secret

SUMMARY

Full-stack software engineer with 6 years of DoD development experience building mission-critical communications software in Java, Spring Boot, Node.js, and PostgreSQL with React, Vue.js, and Angular front ends. Builds full-stack TypeScript apps that integrate third-party APIs and LLMs, and deploys them in Docker containers. Active Secret clearance; strong troubleshooter and communicator in Agile, full-lifecycle teams.

PROFESSIONAL EXPERIENCE

L3HARRIS TECHNOLOGIES **Clifton, NJ**

Senior Associate Software Engineer & UX/UI Designer **2022-Present**

- Lead full-stack design and implementation of 20+ features for a DoD radio preset planning application, building Spring Boot services with Spring Data JPA/Hibernate on PostgreSQL behind React, Vue.js, and Angular front ends styled with Material UI and Vuetify
- Work in a message-driven architecture where the UI sends protobuf messages over JMS to back-end handlers, plus browser-facing REST endpoints
- Traveled on-site to gather user requirements, then mocked up and built a bulk member-to-network assignment feature end to end, adding new endpoints, database tables, and bulk validation logic
- Added support for a new waveform security key type by extending the key tag model and protobuf contract, validation, compatibility filtering, and configuration file generation
- Ship through a Jenkins CI/CD pipeline with Maven builds, SonarQube static analysis, and automated JUnit/Mockito and front-end tests, with two-approver pull request reviews
- Develop and debug across Linux and Windows environments, and travel to military bases to troubleshoot issues with users

Associate Software Engineer **2020-2022**

- Automated a routine release task by building a tool that applies required government code headers, cutting monthly code-drop time by 40% and saving 10+ hours of manual work per release cycle
- Optimized and refactored 10k+ lines of code and gave feedback in 50+ peer code reviews

PROJECTS

ACCESSISCAN — WCAG ACCESSIBILITY AUDITOR **Next.js, TypeScript, Playwright**

- Built a Next.js/TypeScript app with a REST API route that drives headless Chromium through Playwright, injects axe-core, and scores any URL against WCAG 2.0/2.1 AA
- Hardened the API with URL validation and blocking of private and localhost addresses, plus clear handling for timeouts and bot-blocked sites
- Added severity-weighted scoring, A–F grades, category filters, plain-language explainers, and JSON export; containerized with Docker and deployed on Render through a render.yaml config

WAVEWISE — AI BEACH & SURF SAFETY ASSISTANT **Next.js, TypeScript, Claude API**

- Built an AI chat assistant with Next.js, React, TypeScript, and Tailwind CSS that uses Anthropic Claude tool use to fetch live conditions, streaming responses to the UI with server-sent events
- Pulls wave, weather, and tide data in parallel from four external APIs (Open-Meteo Marine, OpenWeatherMap, NOAA CO-OPS, Nominatim), then rates rip-current risk and safety using USLA/NWS thresholds on a Leaflet map

EDUCATION

DREXEL UNIVERSITY — M.S., Human-Computer Interaction **Expected 2028**

VILLANOVA UNIVERSITY — B.S., Computer Science, Minor in Cognitive Science **2016-2020**

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Java, SQL, HTML/CSS, C/C++
- **Frameworks:** React, Next.js, Node.js, Vue.js, Angular, Spring Boot, Spring Data JPA/Hibernate, Tailwind CSS, MUI, Vuetify
- **Data & Messaging:** PostgreSQL, JMS, Protocol Buffers, REST APIs
- **DevOps & Quality:** Git, Jenkins, Maven, SonarQube, Docker, Render, JUnit, Mockito, Playwright, Linux, Jira
- **AI:** Anthropic Claude API (tool use, streaming), Claude Code, Codex