

# ELIZABETH STEIN

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## PROFESSIONAL SUMMARY

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Full-stack engineer and technical lead with hands-on experience building AI-integrated applications, developer tools, and multi-site web ecosystems. Production experience across enterprise CMS platforms, real-time systems, and modern React/Next.js applications. Currently a Software Engineer Intern at Rocket Park focused on Craft CMS architecture and MCP (Model Context Protocol) integrations. Completing a B.S. in Software Development (GPA 3.98, Dean's List), expected March 2026.

## TECHNICAL EXPERTISE

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**Languages & Frameworks:** JavaScript, TypeScript, React, Next.js, Node.js, NestJS, Rust, Go, Python, Java, Spring Boot

**Frontend & CMS:** Tailwind CSS, React Native/Expo, Craft CMS, Twig, WordPress, Figma, component architecture

**AI & ML Integration:** OpenAI GPT-4, Claude API, MCP, Redis Vector Search, embeddings, Whisper API, Amazon Transcribe

**Databases & Infra:** PostgreSQL, MySQL, MongoDB, Redis (JSON/Streams/TimeSeries/Vector), SQLite, Firebase, Vercel, Docker, Railway

**Real-time & Collaboration:** WebSockets, Socket.io, Yjs/CRDTs, Typesense

**Leadership & Process:** Agile/Scrum, technical mentorship, architecture planning, CI/CD, code review

## PROFESSIONAL EXPERIENCE

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### Software Engineer Intern | Rocket Park

Sep 2025 - Present

- Execute core version upgrades, plugin updates, and infrastructure improvements across multiple client Craft CMS sites.
- Built an MCP server wrapper that enables AI assistants to query and interact with Craft CMS content, bridging CMS data with AI-driven workflows.
- Developed a Craft Audit CLI with 30+ detection rules for template performance, security vulnerabilities, and visual regressions, with VS Code and CI/CD integrations.
- Translate Figma designs into production-ready Craft templates using Twig, Tailwind CSS, and modular component architecture.
- Design reusable component patterns that maintain design consistency while preserving content editor flexibility.

### Design Team Lead & Software Engineer | Flo Labs (formerly Flomad)

Sep 2024 - Jan 2026

- Led technical strategy and development for a portfolio of 6 production sites supporting AI/robotics ventures, educational programs, and research initiatives.
- Managed and mentored a cross-functional team of 3-4 developers, WordPress specialists, and SEO interns through planning, code review, and implementation support.
- Architected and deployed a redesign of the Flo Labs web ecosystem (including Flo Labs, CAIPO, Flo Studios, MoodChanger, and RoboCollective properties) using React/Next.js and a unified design system.
- Led an enterprise-level overhaul of the AI Travel Planner, refactoring 100+ files and implementing a more scalable architecture.
- Designed and implemented 22+ specialized AI prompt systems and 18+ AI functions for multimodal travel planning, including budgeting, accessibility, and emergency-assistance workflows.
- Built testing infrastructure with 270 frontend tests and 12 backend tests, establishing CI/CD best practices.
- Developed an AI travel chatbot integrating GPT-4, Whisper API, and Mapbox for geolocation-aware recommendations with speech-to-text features.
- Implemented Firebase Authentication and user management across multiple products and integrated WebSocket-driven real-time updates.
- Automated internal workflows with Zapier, increasing operational efficiency by approximately 40%, and authored onboarding and debugging documentation for team use.

### Software Engineer | Sirius

Aug 2024 - Nov 2024

- Planned, designed, and helped implement scheduling, payroll, and check-in features for the Wisdom workforce mobile app (React Native).
- Improved time-tracking reliability and reduced user-reported issues through systematic testing and debugging.

## EDUCATION

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### Bachelor of Science in Information Technology

Specialization: Software Development | Concentration: Web Development

Capella University | Expected Mar 2026 | GPA: 3.98/4.0

Honors: Dean's List (all quarters), Honors Pathway Certification

## SELECTED PROJECTS

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### **Specter - Code Intelligence CLI**

*npm: @purplegumdropz/specter | github.com/forbiddenlink/specter*

Code intelligence CLI with 65 commands, 14 MCP tools, and 12 analysis modes for complexity hotspots, tech debt estimation, bus factor risk, and coupling patterns. Includes GitHub Copilot CLI integration, CI/CD exit codes, and colorblind-accessible output. Submitted to the DEV.to GitHub Copilot CLI Challenge (2026).

**Stack:** TypeScript, Node.js, AST parsing, Git history analysis, MCP SDK

### **Chronicle - AI Agent Observability Platform**

*github.com/forbiddenlink/Chronicle*

Observability platform for debugging AI agents, similar to DevTools for LLM workflows. Captures LLM calls, tool invocations, and decisions with timeline visualization, deterministic replay, cost tracking, and nested traces.

**Stack:** Rust/Axum, SQLite, React/TypeScript, Python SDK, MCP server

### **Craft Audit - CMS Security & Performance Scanner**

*github.com/forbiddenlink/craft-audit*

Audit tool for Craft CMS projects that detects template performance issues (including N+1 and missing eager loading patterns), security risks (XSS, SSTI, CSRF), and visual regressions via BackstopJS. Includes a VS Code extension and multiple output formats (console, JSON, SARIF, HTML, Bitbucket).

**Stack:** TypeScript, PHP, BackstopJS, VS Code Extension API

### **StanceStream - Multi-Agent AI Debate Platform**

*github.com/forbiddenlink/stancestream | Redis AI Challenge 2025*

Real-time multi-agent AI debate platform using all four Redis data models. Includes GPT-4 agents with persistent personalities and emotional states, semantic caching, live fact checking with vector search, and stance evolution tracking.

**Stack:** Node.js, Express, React 19, Redis, OpenAI GPT-4, WebSockets

### **Kindred - AI-Powered Knowledge Workspace**

*github.com/forbiddenlink/kindred*

Collaborative knowledge workspace with native AI, block-based editing, real-time sync via Yjs/CRDTs, bidirectional wiki links, a visual knowledge graph, and multi-model AI support (Claude, OpenAI, Gemini). Includes import tools and a public REST API.

**Stack:** Next.js 16, React 19, PostgreSQL, Prisma, Typesense, Yjs, BlockNote/Tiptap

### **gif-my-code - Animated Code GIF Generator**

*github.com/forbiddenlink/gif-my-code*

Cross-platform CLI tool that creates animated code GIFs with syntax highlighting and line-by-line emphasis for demos and documentation.

**Stack:** Go, Chroma syntax highlighting

## ADDITIONAL EXPERIENCE

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### **Bartender | Hugo's Restaurant**

2013 - Present

- Manage a high-volume service environment (30-50 customers per shift), balancing rapid prioritization, customer service, and composure under pressure.
- Demonstrate consistent reliability, communication, and multitasking skills while supporting daily operations and team coordination.