

Sean Doran

Software Engineer

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Education

Iowa State University

Bachelor of Science in Software Engineering

Ames, IA

08/2016 – 05/2020

Experience

Software Engineer 3

Comcast — 06/2022 – Present

- Designed and shipped REST APIs in Spring Boot (Java) serving millions of requests across ~150M end-user devices, with a focus on reliability and low error rates
- Integrated AI coding agents (GitHub Copilot, Devin, OpenCode) into the team's daily workflow for spec-driven development planning, code generation, automated test creation, and production issue debugging, increasing delivery velocity without sacrificing code quality
- Built a custom MCP (Model Context Protocol) server to parse and serve API specifications and product spec documents, giving AI coding agents grounded context to keep feature development aligned with required specs
- Introduced Redis caching layer to high-traffic API paths, reducing downstream load and improving response consistency at scale
- Drove observability initiative integrating structured logging, metrics instrumentation, and an ELK stack across microservices — enabling faster incident diagnosis and measurably reducing error rates
- Streamlined CI/CD pipelines via Terraform and Concourse, cutting deploy times by 70% with automatic rollbacks across both Java and Node.js services
- Led refactoring efforts across two codebases — TypeScript migration and Spring service modernization — improving test coverage, reducing technical debt, and cutting developer on-boarding time by 35%
- Developed full-stack partner on-boarding application using Next.js, Okta SDK, and AWS (Terraform)
- Architected green-field identity solution for 85 clients, leading cross-team design of full production/staging infrastructure (EC2, Fargate, ECS)

Software Developer

Menards — 10/2020 – 06/2022

- Engineered backend APIs and services supporting online sales for over 2 million customers
- Delivered new cart and checkout system, generating 60% more revenue and increasing average purchase total by 42%
- Modernized legacy systems by upgrading Spring and Vue.js versions, improving customer satisfaction and ROI
- Built and maintained CI/CD pipelines using Jenkins; collaborated with QA to ensure feature quality

Projects

Discord Bot

Node.js, Discord.js, Azure, Docker — 03/2020 – Present

- Serves 5–10K concurrent users; features stock/crypto trackers and generative AI (text & image) via OpenAI APIs; deployed on Azure with CosmosDB

Leetcode Bot

Python, PyCord, Fly.io, Docker — 02/2024

- Python Discord bot that fetches and posts daily LeetCode questions to a server channel

Anime UI

Node.js, React.js, Firebase — 04/2022

- React dashboard integrating AniList API to display user watch lists and show ratings

Skills

Languages: Python, JavaScript / TypeScript, Java, Go, gRPC, PostgreSQL, MySQL, HTML/CSS

Frameworks: Vue.js, JUnit, Node.js, Next.js, Express, Material UI, Spring Boot, Mocha.js, Firebase, React

Developer Tools: Linux, Git, Docker, Jenkins, AWS, Concourse CI, HashiCorp Terraform, HashiCorp Vault, Nginx, GitHub Actions

AI-Assisted Development: GitHub Copilot, Devin, OpenCode, Model Context Protocol (MCP) server development