

# Garrett Strand

Full Stack Software Engineer

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## Summary

Full Stack Software Engineer with extensive experience building secure, scalable web applications and internal tools. Proven expertise in modernizing legacy infrastructure using TypeScript, Python, and Go, with a focus on enhancing developer productivity through LLM integrations and automated workflows. Dedicated to robust system architecture, from designing secure API endpoints to managing containerized deployments and high-availability networking.

## Experience

**Williams-Sonoma Stores, INC** | Fullstack Software Engineer

2023-2026

LLM / MCP Integration | Model Context Protocol SDK | TypeScript | MCPHub | Feedly

- Built a TypeScript MCP server with the MCP SDK that surfaces package documentation to Copilot/Copilot Chat and other LLM clients, reducing hallucinations and follow-up lookups by enabling tool-based, source-of-truth retrieval.
- Implemented a declarative configuration system (JSON/YAML) to manage sites/packages and per-source refresh intervals.
- Added a persistent cache with TTL + Last-Modified handling to avoid re-fetching unchanged docs, allowing the user to configure how often they want to update the cache.
- Designed a Feedly-driven ingestion path for vulnerability intel (CVE/advisory streams), mapping sources to services and generating draft remediation notes.

Firewall Change Request | SvelteKit | Tailwind | Go | PostgreSQL

- Rebuilt legacy ServiceNow firewall change form into a standalone web app with secure SvelteKit API endpoints backed by PostgreSQL.
- Developed a Go-based CLI to pull and locally cache CI data from ServiceNow, reducing API calls and improving responsiveness.
- Created reusable SvelteKit components for form handling, validation, and API communication, ensuring secure and consistent user interactions.
- Applied Tailwind for a cohesive UI theme, improving maintainability and cross-application visual consistency.

Security Portal Rewrite | Python (Flask) | HTML | Bootstrap | jQuery | PostgreSQL

- Consolidated eight separate Flask applications (previously merged via DispatcherMiddleware) into a single modular codebase using Flask Blueprints.
- Standardized and centralized shared Jinja templates, utility functions, and helper modules to enforce a single source of truth.
- Reduced duplicated code and simplified maintenance, decreasing onboarding time for new developers.

Security Portal Development | Python (Flask) | HTML | Bootstrap | jQuery | PostgreSQL

- Migrated authentication from basic AD with JWT to enterprise SSO + MFA, enhancing security compliance.
- Designed and deployed a threat advisory application, integrating with ServiceNow for standardized distribution to targeted teams.
- Added a subscription feature leveraging AD group data to provide tailored content views per user role.
- Built an automated PDF reporting system for firewall object decommissioning, aggregating data from four APIs to ensure no in-use objects were removed.

Devops and Internal Tooling | Go | Bash | PostgreSQL | Jenkins | Docker Swarm

- Built a Go-based CLI to read YAML config files and execute chained commands for multi-server deployments.
- Authored Bash scripts for local Docker management and automated secret updates via API integration with secret management servers.
- Optimized Git workflows for feature branching, review processes, and cross-team collaboration.
- Partnered with internal teams to gather requirements, plan feature roadmaps, and deliver solutions tailored to operational needs.

**Galvanize** | Software Engineering Immersive Resident

2023-2023

- Guided 70 students in learning Python, JavaScript, HTML, CSS, and back-end frameworks like Django and FastAPI, as well as front-end technologies such as React.
- Provided technical support and troubleshooting for students using MongoDB, Postgres, Linux, Windows, and macOS.
- Collaborated with teachers and tracked student progress in a LMS to ensure a successful learning experience for all.

**Seattle Genetics** | Workplace Computing Intern

2021-2022

- Planned and executed logistical operations to return 900+ employees to the office after working remotely.
- Improved the process for employees returning hardware by implementing an automation process.
- Created documentation for an automated solution to pull shipping information by utilizing the FedEx API to create shipping labels saving 90% of time on task.

## Technical Skills

**Languages** | Typescript, Python, Go, JavaScript, SQL

**Frameworks & Libraries** | Django, FastAPI, Flask, Node.js, React, Svelte, SvelteKit, Astro

**Front-End** | CSS, HTML, jQuery, Tailwind, Bootstrap

**Databases** | PostgreSQL, SQLite, MongoDB, Redis

**DevOps & Tools** | Docker, Docker Swarm, Git, Microservices, Monoliths, Vercel, SSL, MFA, MCP Servers, Cloudflare

**Design & Modeling** | Adobe Creative Cloud, 3D Modeling (Blender), CAD Modeling (Fusion 360), Figma

**Hardware & Systems** | 3D Printing, Computer Building, Hardware/Software Troubleshooting, Soldering, ServiceNow

## Projects

**Link Site** | <https://garrettstrand.com>

2026

Astro | React | TypeScript | Tailwind | Cloudflare Workers | Cloudflare Analytics Engine

- Built and deployed a serverless link site on Cloudflare Workers using Astro with React components for interactive UI elements and fast global delivery.
- Implemented per-link click tracking using Cloudflare Analytics Engine, storing events and aggregating counts to measure engagement across outbound links.
- Designed a responsive theme system with device-specific UX: terminal + brutalist themes on desktop and a glass-style theme on mobile.

## Personal Homelab

2025-Present

Docker Swarm | Traefik | Authentik | Keepalived | Pi-Hole | Unbound | Forgejo | Woodpecker | Postgresql | Grafana | Ansible | restic

- Architected a two-node Raspberry Pi 5 Swarm with edge/data role separation and overlay network segmentation to reduce blast radius.
- Implemented HA internal DNS using Keepalived VIP failover + Pi-hole + Unbound recursion; routed services via wildcard DNS and Traefik without per-service DNS management.
- Delivered HTTPS everywhere using wildcard TLS via Cloudflare DNS challenge; integrated Traefik ForwardAuth with Authentik SSO to protect internal services. • Built production-style observability (Prometheus + Alertmanager + Grafana + Loki + Tempo + Blackbox) monitoring service health, TLS expiry, and resource usage; centralized alert fan-out through Apprise (Discord + ntfy).
- Designed a trust-separated Postgres setup (overlay-only internal DB vs. LAN-restricted with UFW) with separate volumes/secrets/resource limits.
- Implemented encrypted restic backups with retention pruning and pre-backup logical DB dumps, replicated to desktop via pull-based sync.

**My Games List** | <https://github.com/gstrand99/my-games-list>

2023

Fast API | React | Python | HTML | JavaScript | CSS | MongoDB

- Implemented a Python script that cached over 300,000 video game related documents from an external API to MongoDB, leveraging aggregation pipelines to reduce query overhead and dataset size.
- Designed the React frontend, adding UI components such as carousels and responsive navigation (e.g., hamburger menu) for improved usability.

## Volunteer

**Doxa** | <https://www.doxaserves.org> | Tijuana, Mexico

2014-2022

- Participated in six separate house-building projects in Tijuana, Mexico, dedicated to providing stable housing for those in need.
- After five years of experience as a student builder, I transitioned into a leadership role to guide new volunteers through the construction process.
- Responsible for site safety and teaching basic building skills to students, ensuring our team met our goal of completing a functional home by the end of each trip.

## Education

**Hack Reactor**

Advanced Software Engineering Immersive Certificate

Software Engineering

2022-2023

**Bellevue College**

CompTIA A+ Certification

Information Technology

2021