Sean Lange

Software Engineer

Building cloud-native developer platforms and real-time distributed systems.

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CERTIFICATIONS & EDUCATION

IBM Certified Professional Developer – Cloud v6   **Orlando, FL**
Cloud Infrastructure, Deployment Pipelines, Distributed Systems   *October 2025*

University of South Florida   **Tampa, FL**
Bachelor of Science, Computer Science   *Expected May 2028*

PROJECTS

Multyx.io 🔗 **–** Multiplayer Game Development Platform – Founder   *February 2025 - Present*

Founded a browser-based multiplayer game development platform enabling beginner programmers to build and deploy real-time games without networking knowledge.

- Designed a **block-based visual programming model** that eliminates shared mutable state, preventing race conditions for beginner users.
- Chose ECS on EC2 over Fargate to enable high-density, dynamically routed multiplayer servers, allowing a **43% reduction in per-game hosting costs**.
- Designed a **typed AST model** to enable editor-time validation and prevent invalid game logic before runtime.
- Built a Step Functions-orchestrated provisioning pipeline to reliably build, deploy, and terminate per-game server instances, achieving **~40 seconds** between request time to live server.

Fitted 🔗 **–** Outfit Generation Webapp – Creator   *April 2025 – April 2025*

Led a team of 4 to win AI track (**1 of 50**) at HackUSF; shipped full-stack web app in **24 hours**.

- Designed and built a full-stack outfit generation app using TypeScript, Next.js, tRPC, and PostgreSQL.
- Implemented AI-native clothing embedding and outfit creating tool with OpenAI embeddings and GPT-4o.
- Deployed **scalable asset storage and delivery** with AWS S3 and CloudFront.

Imgscrpr 🔗 **–** Adaptive Reddit Feed for Discord – Creator   *October 2021 - February 2022*

Built and monetized a Discord bot added by **100+ servers**, converting several users to a paid tier.

- Designed personalization logic with graph-based ranking algorithms to provide an adaptive Reddit feed.
- Utilized TypeScript to integrate the Discord and Reddit APIs, while using MongoDB and a caching layer to process and store server data, providing a **<2 second response time**.
- Scaled to maximum unverified server-cap in a week, sunset after hitting third-party data policy constraint.

SKILLS

Languages and Frameworks	TypeScript, React, Express.js, Next.js, Astro, tRPC, Git
Infrastructure	AWS (ALB, EC2, ECS, Lambda, Step Functions, VPC), Docker, CI/CD
Data	PostgreSQL, Drizzle, Redis, MongoDB, Auth.js, WebSockets

WORK EXPERIENCE

Publix Supermarkets   **Largo, FL / Tampa, FL**
Customer Service Staff   *March 2022 – Present*

- Trusted with high-value money transactions (**$1k+**) and end-of-day reconciliation.
- Coordinated teams of 10+ people, ensuring peak efficiency during varying traffic and peak hours.