

Sullivan Xiong

Sacramento, CA

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[LinkedIn](#) — [Github](#)

Education

California Polytechnic State University — SLO

Bachelors of Science in Software Engineering Aug 2018 — Jun 2022

Professional Experience

LinkedIn,

Site Reliability Engineer

Sunnyvale, CA

August 2022 — October 2024

- Developed and deployed 9 features and 2 microservices, improving metrics transparency, triaging capabilities, and significantly reducing time-to-mitigation.
- Resolved over 200 incidents across multiple on-call rotations, ensuring system reliability as well as minimizing downtime for end-users.
- Spearheaded a department-wide initiative to decommission and recycle 261 servers, resulting in a 29% reduction in infrastructure costs and significant resource optimization.
- Led the adoption of new observability tools, enabling seamless integration of product metrics for all engineering teams, resulting in a 24% reduction in initial product deployment time.

Projects

Personal Portfolio <https://sullivanxiong.com>

- Developed portfolio webapp using Next.js, Typescript, TailWindCSS, gRPC, PostgreSQL, Prisma, and tiptap text editor.
- Built an admin console to easily manage portfolio content, to-do list items, and blog posts.
- Used [Fly.io](#) to host the server and CloudFlare to handle the networking side (dns, SSL/TLS)

Calendar Tetromino Puzzle

- Implemented DLX (Dancing Links) algorithm to solve the Exact Cover Problem allowing me to solve grid-based puzzles in $O(2^n)$, significantly reducing the brute force $O(n! * p^n)$ approach.
- Utilized a Toroidal (3D Doubly) LinkedList to solve the Exact Cover Problem.

Data Structures and Algorithms Visualizer

- Designed a solution to visualize data structures and algorithms.
- Implemented with an object-oriented approach promoting modularity, reusability, and maintainability.
- Created a built code editor and interpreter. This lets users write their own code that gets parsed into an Abstract Syntax Tree and executed as black box javascript.

Skills

Next.js • React • TypeScript • TailwindCSS • Figma • Python • Go • Zig • C •
Solidity • Node.js • Docker • PostgreSQL • MySQL • MongoDB • Redis