W. Sho Sugihara

Software Engineer

➤ wshosugihara.com ✉ shosmail31@gmail.com ⚲ Enumclaw, WA in LinkedIn ◯ GitHub

PROFILE

Hi, I'm a full-stack software engineer with a passion for creating scalable, future oriented and user-friendly web application. I have experience using Javascript, Ruby, React, TailwindCSS, PostgreSQL among other frameworks and libraries .

Recently I built TINKER ⊘ — a self-hosted, backend-as-a-service (BaaS) that automates configuration and deployment on AWS, with a companion PostgreSQL DB management UI.

TECHNICAL EXPERIENCE

TINKER Framework, *Creator, Software Engineer* ⊘   2023

Created an open-source, self-hosted, backend-as-a-service (BaaS) that automates deployment and configuration on AWS , with a companion PostgreSQL database management UI.

- Designed and authored a dashboard UI for visualizing, defining and manipulating PostgreSQL databases as a substitute to manually writing SQL queries (React, Tailwind)
- Implemented AWS network infrastructure for public facing backends, and least privilege access for security (VPC, subnet, IGW, route table, NACL, security group, ALB, listener)
- Published an npm CLI package that automates deployment and teardown of 26 AWS components for user backends (CloudFormation, AWS SDK)
- Centralized TLS certificate exchange between clients and backend servers through TLS offloading (Route53, ALB), reducing certificate count from linear growth to constant
- Secured PostgreSQL databases through authentication with JWTs and authorization with roles
- Engineered automatic provisioning of NGINX, PostgreSQL, and an API layer for each user backend on EC2s using Docker, eliminating the need to write boilerplate CRUD routes
- Created RPCs enabling the dashboard to make SQL queries (DDL and DML)
- Authored technical case study ⊘

Software Engineer, *Self-Employed*   2021 – 2023
Inspector-Hook -A RequestBin-like tool for collecting and inspecting webhooks. (Javascript, React, PostgreSQL, Express, Nginx, Webhooks, DigitalOcean Droplets)
ToDos - A todos management application (Javascript, HTML, CSS, Handlebars, Express)
BookCheck - A library book checkout management application. Manages users, book info, book checkout and return management (Ruby, Erubis, Sinatra, PostgreSQL, HTML, CSS)

SKILLS

Languages	Frameworks & Libraries	Technologies
Javascript, Ruby, Go, SQL, HTML, CSS	Express, React, TailwindCSS, Sinatra, Node, Handlebars, Erubis	PostgreSQL, MongoDB, Docker, Git/GitHub, REST API's, HTTP/HTTPS, WebSockets, AWS, DigitalOcean

EDUCATION

Software-Engineer, *Launch School* ⊘   2021 – 2023
Multi year full-stack software engineer curriculum emphasizing mastery based learning of core programming fundamentals and problem solving. – launchschool.com/employers ⊘