

W. Sho Sugihara

Software Engineer

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PROFILE

I'm a software engineer with experience with Javascript, Ruby, React, PostgreSQL, AWS and various other frameworks and technologies..

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, Co-Creator, Software Engineer

06/2023 – 08/2023

<https://tinker-base.github.io/>

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 handling PostgreSQL database manipulation using React.js & tailwindcss
- Implemented Tinker's AWS infrastructure using AWS SDK's
- Automated AWS provisioning through Tinker's CLI and AWS CloudFormation
- Contributed to Tinker's CLI NPM package and CloudFormation templates
- Centralized TLS certificate management and HTTPS communication through SSL offloading
- Secured Tinker through authentication with JWTs and authorization with PostgreSQL roles
- Engineered automatic provisioning of PostgreSQL and an API layer in EC2 instances using Docker
- Orchestrated Docker image communications through Docker compose
- Developed RPCs for dashboard SQL queries (DDL and DML)
- Integrated a RESTful API for handling database management and querying
- Co-authored a case study on Tinker's problem domain, architecture, challenges, and design decisions

Software Engineer, Student

2021 – 2023

Inspector-Hook - A RequestBin-like tool for collecting and inspecting webhooks. Create endpoints for webhook providers and view webhook payloads. (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

Javascript, Ruby, Go, SQL, HTML, CSS

Frameworks & Libraries

Express, React, Tailwindcss, Sinatra, Node, Handlebars, Erubis

Technologies

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 [🔗](#)