

# W. Sho Sugihara

## Software Engineer

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### PROFILE

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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

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#### **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 request bin clone (Javascript, React, PostgreSQL, Express, Nginx, Webhooks, DigitalOcean Droplets)

Tasks - A todos management application (Javascript, HTML, CSS, Handlebars, Express)

BookCheck - a library book checkout management app (Ruby, Erubis, Sinatra, PostgreSQL, HTML, CSS)

### SKILLS

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#### **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

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#### **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](https://launchschool.com/employers) [🔗](#)