

# William Sho Sugihara

## Software Engineer

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## PROFILE

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Hi, I'm a full-stack software engineer and love creating scalable, future oriented and user-friendly web application. I am especially passionate about solving real world problems and creating an intuitive and fun UX. Recently I built TINKER [🔗](#) — a self-hosted, backend-as-a-service (BaaS) that automates configuration and deployment on AWS, with a companion UI for visualizing, managing and defining PostgreSQL databases.

## TECHNICAL EXPERIENCE

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### TINKER Framework, Creator, Software Engineer [🔗](#)

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 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 a CLI that automates deployment and teardown of 26 AWS components for backends, reducing deployment configuration steps from ~180 to 9 (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 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, Websockets, 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

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### Languages

Javascript, Ruby, Go, SQL, HTML, CSS

### Frameworks & Libraries

Express, React, TailwindCSS, Sinatra, Node, Handlebars, Erubis, Jest

### Technologies

PostgreSQL, MongoDB, Docker, Git/GitHub, REST API's, HTTPS, WebSockets, AWS, JWT

## 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) [🔗](#)