

# William "Sho" Sugihara

## Software Engineer

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### SUMMARY

As a professional with a diverse cultural background, I draw inspiration from my Japanese heritage, adopting the name 'Sho' in my daily life. My journey has seen me transition from a culinary artist to a software engineer, where I've discovered my passion for crafting scalable, forward-thinking, and user-centric web applications. I find true fulfillment in tackling real-world challenges and crafting intuitive user interfaces (UI) and unforgettable user experiences (UX). In addition to my love for UI/UX design, I also relish building APIs and working with databases.

Most notably, I recently spearheaded the development of 'TINKER,' an automated self-hosted backend-as-a-service (BaaS) framework tailored for AWS users. This innovative project features a user-friendly interface for visualizing, managing, and defining PostgreSQL databases within each backend server.

### SKILLS

#### Languages

Javascript, Ruby, SQL, HTML, CSS

#### Frameworks & Libraries

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

#### Technologies

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

### WORK EXPERIENCE

#### TINKER, Co-Creator, Software Engineer

07/2023 – 08/2023

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

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

- Collaborated on a distributed remote team
- Created a user-friendly dashboard **UI** using **React** and **TailwindCSS** to visualize, define, and manipulate **PostgreSQL** databases, eliminating the need for manual **SQL** query composition.
- Implemented **AWS** network infrastructure for public facing backends, and least privilege access for security (VPC, subnet, IGW, route table, NACL, security group, ALB, listener).
- Developed a command-line interface (**CLI**) utilizing **AWS CloudFormation** and **SDK** to automate the deployment and dismantling of 26 AWS components for backends, significantly streamlining deployment configuration steps from approximately 180 to just 9.
- Implemented centralized **TLS** certificate exchange using Route53 and Application Load Balancer (**ALB**) for TLS offloading, effectively reducing the certificate count from linear growth to a constant, enhancing the security and efficiency of client-backend server connections.
- Secured PostgreSQL databases through authentication with **JWTs** and authorization with roles.
- Automated the provisioning of **NGINX**, **PostgreSQL**, and an **RESTful API** layer for individual user backends on EC2 instances using **Docker**, effectively eliminating the need for boilerplate CRUD routes.
- Developed Remote Procedure Calls (**RPCs**) to empower the dashboard in executing **SQL** queries, both Data Definition Language (DDL) and Data Manipulation Language (DML), streamlining interaction with the database.
- Crafted a comprehensive technical case study .

## Software Engineer, Self-Employed

2021 – 2023

**Inspector-Hook** - A RequestBin-like tool for collecting and inspecting webhooks.

- Created an intuitive user interface (UI) using **React** and **Javascript** for visualizing incoming **webhook** data.
- Implemented realtime data handling using **Websockets** and **PostgreSQL** through an **Express.js API** server.
- Orchestrated server deployment on a cloud server using **Nginx** and DigitalOcean Droplets.

**ToDos** - A task management application

- Developed a task management user interface (**UI**) using vanilla **JavaScript**, **HTML**, and **CSS** to interact seamlessly with an **API** and a database for efficient task handling.
- Managed an **Express API** server for effective route handling.
- Employed **HTML templating** with Handlebars to effectively manage and display dynamic content.

**BookCheck** - A library book checkout management application. The app manages administrator privileges, users, book info, book checkout and returns.

- Developed a user interface (**UI**) using **HTML & CSS** tailored for both application users and administrators, facilitating book management by enabling actions such as adding/deleting books, as well as checking out and returning books.
- Engineered an **API** utilizing **Ruby** and a **Sinatra** server to efficiently manage routing within the application.
- Employed **HTML templating** with Erubis to effectively manage and display dynamic content.
- Established a **PostgreSQL** database structure designed to manage administrative, user, and book data while facilitating the checkout and return processes.

## Chef

2011 – 2021

2018~2021 Worked on Microsoft Millennium campus cafe as a team lead and assistant sous chef.

2017~2018 Worked as a butcher for B&E Meats and Seafood.

2013~2017 Moved to Japan and worked at both Hachiko and Takumi as a Sous Chef.

2011~2013 Worked at restaurants, Tsukushimbo and Mashiko as a line cook.

## EDUCATION

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**Software Engineering**, Launch School 

2021 – 2023

**Culinary Arts**, Seattle Culinary Academy

2011 – 2013

**General**, University of Washington

2010