

# Frank Tao

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## Education

### University of Waterloo

📅 2020-2025

Candidate for Bachelor of Computer Science (BCS)

## Experience

### Titanfile, Inc

Toronto, ON, Canada

Software Engineering Intern

September 2021 - December 2021

- **Lead developer** on a UI overhaul of the company's flagship product, resulting in a significantly more consistent, modern, and bug-free interface
- Wrote maintenance scripts and automated test cases in **Python** to support and streamline DevOps operations
- Implemented and wrote **backend** solutions such as a request queuing system in **Django** and **Redis**

### Baron Biosystems Ltd

Toronto, ON, Canada

Software Engineering Intern

June 2022 - August 2022

- Refactored over 10000 lines of code from **PHP** and **JS** to **Svelte** and **TypeScript**
- Consolidated frontend components to exhibit **polymorphism** creating cleaner code
- Operated with high independence, highly dynamic requirements, and tight deadlines

## Projects

### 🔗 KaratsubaLabs/sashimi-backend : Server Downtime Tracker

📅 January 2022

- A status monitor and downtime tracker that can serve uptime statics for servers and web apps and notifies admins of downtime
- **Golang** backend that tracks uptime using a **PostgreSQL** database and exposes data through a **REST API**

### 🔗 KaratsubaLabs/takoyaki-frontend : Simple and Intuitive VPS Hosting

📅 December 2021

- Designed, mocked up, and wrote a frontend and control panel in **Vue** for a VPS hosting project
- Handles user authentication through **JWT** and **HTTP** requests using an API
- Intuitive, production quality user interface deployed on a self-hosted server

### 🔗 Widgethub : Social Media Widget App

📅 July 2021

- Created a frontend with **ReactJS** and **TailwindCSS** to provide customized, one-click widgets that can be embedded in any platform that supports HTML
- Backend serves data to the frontend through a **REST API** and to the widgets through a GraphQL API

### 🔗 Pixolous : Image De-Duplication Tool

📅 November 2022

- Created a frontend with **VueJS** to provide a simple, easy-to-use interface to detect and delete duplicates in a photo album
- Backend written in **Golang** serves data to the frontend through a **REST API**

### 🔗 bloodandcoffee/pinobot : Discord Productivity Bot

📅 December 2021

- Created a bot in **Python** using the Discord API that runs as a systemd service
- Sends notifications as messages through the messaging app Discord designed to boost productivity

## Skills

### Languages and Technologies

**programming** C, C++, Java, JS, Python, GO

**graphics** OpenGL

**other** Linux, Bash, Git, Vim

### Web/Sysadmin

**web frontend** Vue, React, Svelte, PHP

**web backend** Node, PostgreSQL, Redis

**linux/sysadmin** NGINX, Libvirt, Ansible, SystemD