

# Frank Tao

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## Education

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### University of Waterloo

Bachelor of Computer Science

Waterloo, ON  
September 2020 -

## Technical Skills

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**Languages:** Rust, Kotlin, JavaScript/TypeScript, Bash, C, C++

**Others:** React, Vue, Svelte, Android, Puppeteer, SQL, REST API

## Work Experience

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### Software Developer

Solinst Canada Ltd.

May 2023 - December 2023

Georgetown, ON

- Completely rewrote the company's primary **Android** app in **Kotlin**, eliminating a decade of technical debt and increasing critical runtime performance metrics by >250%
- Developed Unit Tests for a **CI/CD** pipeline in **Puppeteer**, reducing pre-release bug rate by >80% and enabling on-time deployment of new cloud compute features

### Software Developer

Baron Biosystems Ltd

June 2022 - August 2022

Toronto, ON

- Successfully led a system-wide refactoring of >10k LoC from **PHP/JavaScript** to **Svelte/TypeScript**, establishing a systematic rollout process followed by 3 other engineers
- Completed a comprehensive review and consolidation of all frontend components, resulting in a >20% LOC reduction, >35% faster average load times, and superior adherence to industry standards

### Software Developer

Titanfile, Inc

September 2021 - December 2021

Toronto, ON

- Led a team of 3 interns to perform an end-to-end **UI/UX** overhaul of company's flagship product
- Developed a comprehensive suite of automated DevOps tools in **Python**, reducing the need for manual engineer oversight by over 15 FTE-hours/week

## Projects

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**Suisai** | *React, TailwindCSS, Rust, PostgreSQL, REST API* | [fubuki4649/suisai](https://github.com/fubuki4649/suisai)

March 2025

- Digital photo album built for photographers, with a modern **React** and **TailwindCSS** frontend and a **Rust** and **PostgreSQL** backend

**Polaris** | *Kotlin* | [fubuki4649/polaris](https://github.com/fubuki4649/polaris)

January 2025

- A CLI utility that downloads a music playlist from YouTube and generates tags for them using a LLM
- Also built a reusable AI LLM client in Kotlin capable of supporting different providers (Gemini, ChatGPT, etc.)

**Potechi** | *C++, Ncurses* | [fubuki4649/potechi](https://github.com/fubuki4649/potechi)

May 2023

- A terminal-based CHIP-8 emulator in pure C++ and the ncurses library
- Implemented a virtual CPU cycle, memory map and the CHIP-8's instruction set to achieve software virtualization

**Asahi** | *Rust, DBus* | [fubuki4649/asahi](https://github.com/fubuki4649/asahi)

March 2024

- A dark mode daemon for all wayland-based linux desktop environments
- Implemented a Rust backend for XDG Desktop Portal, a DBus protocol
- Determines the user's location and calculates the appropriate sunset/sunrise times using geoclue