Felix Liu

905-805-5437 | felixliu135@gmail.com | linkedin.com/in/felixliu135 | github.com/BigFlexLiu | personal website

SKILLS

Webdev: React, Typescript, Javascript, HTML, CSS, Go, SQL

Mobile: Flutter/Dart, Kotlin

General purpose: Python, C++

Technology: Linux, Git, Docker, Google Cloud, Microsoft Azure, firebase

non-technical: empathy, communication, conflict management, curiousity, project management

EXPERIENCE

Senior Software Engineer   Apr 2023 - Aug 2023
Spurry Inc.   *Toronto, ON, Canada*

- Synced user subscriptions with Stripe, creating smooth and transparent payment experience for the users
- Streamlined deployment with GitHub Actions, enabling efficient CI/CD pipelines to Google Cloud.
- Enhanced backend API by integrating VertexAI with prompt engineering, enabling real-time, flexible responses to user inquiries.
- Optimized algorithm to reuse instead of repeat code generation, cut down complexity in large projects.

Full-stack Developer   Sep 2022 - Dec 2022
University of Waterloo   *Waterloo, ON, Canada*

- Employed caching and pagination techniques with React/Typescript, enforcing 60% faster api response time to enhance user experience
- Synchronized database with Zotero using GO and Container, eliminating collision problem and speeding up collaboration between researchers
- Automated the citation process using source data, reducing the necessary citation information by 500%.
- Created profile management page using React/Typescript with MVC architecture, engaging users across the world to join the research of rhetorical figures

Software Engineer   Sep 2021 - Apr 2022
Uncaught Exception Inc.   *Vancouver, BC, Canada*

- Developed an optimized data structure in Dart to manage long strings by segmenting them into logical components, enhancing the code generation algorithm's efficiency from quadratic to linear time.
- Updated third party api using dart, cutting down over a month worth of development time
- Implemented a Figma plugin using React/Javascript, creating a clean, intuitive interface for code customization
- Developed to-scale diagrams of triangle, circle, and rafters with editable parameters using Flutter/Dart, distinguishing the construction calculator from the competitors
- Unified theme across app, providing a clean consistent design that is maintainable and scalable
- Refactored over a thousand lines of code by applying the principles of OOP, improving readability, maintainability, and minimizing future development time

PROJECTS

Attention | *Flutter/Dart*   March 2024 – April 2024

- An enhanced todo list designed to help users be productive
- Employed psychological techniques of chunking, implementation intention, and positive feedback loop

Ripple | *React/Typescript*   February 2023 - April 2023

- A sandbox that emulates dyed ripples on the surface of water
- Used colored boxes and the expanding of color onto nearby boxes to create animation of ripples and interference

EDUCATION

University of Waterloo   Waterloo, ON
Bachelor of Computer Science   *Sep 2020 - Apr 2025*