Yifei Xiao

Software Engineer • Vancouver, British Columbia, Canada

📞 (604)-339-4678 ✉ yifeixiaoo@gmail.com 🌐 yifeixiaoo.github.io 🔗 linkedin.com/in/yifeixiao 🐙 github.com/yifeixiaoo

Skills

Languages: TypeScript, JavaScript, Python, HTML/CSS, Java

Frameworks and Tools: Express, Flask, Node.js, React, Azure, AWS, Mocha/Chai, Linux, Git

Experience

Tetra Tech 🔗 — May 2023 – Current
Software Engineer — *Vancouver, BC*

- **Led backend development for the main product of FusionMap**, refactoring the monolithic Flask backend into a microservice-based architecture on Express, achieving a **400% increase in API speeds.**
- **Designed the architecture for a database and cloud storage system** that handles terabytes of client data daily.
- **Configured and implemented a robust CI/CD pipeline** using GitHub Actions and YAML files, leveraging self-hosted runners on virtual machines for seamless deployments across multiple regions.
- Built a subscription-based payment system utilizing Stripe API for seamless transactions.

Alida 🔗 — Jan 2022 – Aug 2022
Software Developer Intern — *Vancouver, BC*

- Planned and executed dashboard features within Alida Analytics that **attracted 41 new enterprise customers.**
- Developed the Oneclick Dashboard, **reducing dashboard creation time by 75%** and integrating AI models for customer feedback analysis.
- **Implemented mobile platform integration for Alida Dashboards**, incorporating an ETL pipeline to merge data collected on mobile platforms with the existing dashboard database.

Intel 🔗 — Sept 2019 – May 2020
Python Developer Intern — *Vancouver, BC*

- Developed an automated verification pipeline for IC designs in Python, including full documentation and 100% test coverage.
- Streamlined and optimized design flow processes with Python scripts.
- Verified design specifications for individual blocks and circuit designs, Utilizing SVUnit for unit and integration testing.

Projects

Moda 🔗

- Conceptualized and developed Moda, a home furnishing e-commerce platform inspired by Ikea's theme of minimalistic and functional design.
- Designed product listing and navigation pages, allowing for easy customization and scalability as the product catalog grows.
- Implemented a site-wide context to manage the state of the shopping cart, enabling real-time updates of cart items across the website.

UBC Course Finder 🔗

- Created a web application tool for easily finding UBC courses based on user preferences.
- Extracted course locations from the UBC Wayfinding website using parse5 and processed into JSON files for querying.
- Built a scheduler algorithm that schedules course sections into available classrooms.

Education

University of British Columbia — Sept 2017 – May 2023
Bachelor of Science in Computer Science — *Vancouver, BC*