Yifei Xiao

Software Engineer • Vancouver, British Columbia, Canada

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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**, defining the roadmap and engineering best practices.
- **Conceptualized the design and architecture of database and cloud storage structures** from inception, ensuring scalability and efficient handling of terabytes of client data.
- Designed and implemented a robust CI/CD pipeline that **reduced deployment time by 80%** and distributed to multiple servers across Canada, the US, and Australia.
- 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.
- Designed and implemented scalable APIs and backend infrastructure for managing and distributing Alida services.

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*