Yifei Xiao

Software Engineer • Vancouver, British Columbia, Canada

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Skills

Languages: TypeScript, JavaScript, Python, Java, C++, SQL, LookML, HTML/CSS, Latex
Frameworks: Express, Flask, Node.js, JUnit, React, Jest, JQuery, PyTest
Developer Tools: Git, Linux, PostgreSQL, MS SQL Server, GoCD, Docker, Postman, Looker

Experience

Tetra Tech 🔗   **May 2023 – Current**
Full Stack Engineer   *Vancouver, BC*
- Led backend development for the main product of FusionMap, defining the road-map and establishing engineering best practicies for tasks within the team's scope.
- Drove and developed coding standards for Typescript to train other engineers and improve overall quality of Express applications.
- Expanded company knowledge and introduced the use of new technologies such as Express, PostgreSQL, and Postman.
- Spearheaded the adoption of Scrum/Agile methodologies within the development team, introduced Jira and Confluence into the workflow, and consequently, improved task tracking, project management, and project visibility.
- Initiated a shift towards comprehensive documentation practices, enhancing knowledge sharing and reducing onboarding time for new team members.
- **Technologies: Express, Flask, React, Azure, TypeScript, Python, Node.js, PostgreSQL, Postman**

Alida 🔗   **Jan 2022 – Aug 2022**
Software Developer Intern   *Vancouver, BC*
- Led the design and development of multiple enterprise-level microservice applications in Alida Analytics, directly impacting 176 million users globally and driving 41 new enterprise customers in 2022.
- Developed the Oneclick Dashboard, reducing the Dashboard creation time by 75%. Applied Alida AI models to analyze and display customer feedback in customizable Dashboard templates.
- Led development for a mobile data analytics project. Implemented ETL pipeline to enrich and ingest mobile data into analytics data warehouse. Completed implementation within 80% of scoped time.
- Designed and implemented scalable APIs and backend infrastructure for managing and distributing Alida services.
- Produced bug fixes for customer-impacting issues, efficiently closing over 70 user stories within the 8-month term.
- **Technologies: TypeScript, JavaScript, Node.js, React, PostgreSQL, Docker, Postman, GoCD, Jest**

Intel 🔗   **Sept 2019 – May 2020**
Python Developer Intern   *Vancouver, BC*
- Designed and implemented a completely automated verification pipeline for integrated circuit designs in Python. Created full documentation and 100% coverage test suite from scratch as engineering owner.
- Eliminated the need to hire a new Python Developer Contractor, resulting in estimated annual savings of $90,000.
- Verified design specifications for individual blocks and circuit designs. Utilized SVUnit for unit and integration testing.
- **Technologies: Python, PyTest, Pandas, Git, XML, SystemVerilog**

Projects

Moda 🔗 | *React, JavaScript, CSS3, HTML5, Prettier, Github, Git*
- Moda is a home furnishing e-commerce website that makes minimalistic and functional furniture accessible to everyone.
- Implemented product listing and detail pages using React components, allowing for easy customization and scalability as the product catalog grows.
- Implemented a site-wide context using React Context API to manage the state of the shopping cart, allowing for seamless sharing of cart data between components and pages, and enabling real-time updates of cart items across the website.

UBC Course Finder 🔗 | *TypeScript, JavaScript, Jest, JQuery*
- Developed a web application that allows users to enter specifications to filter through a UBC courses data set and return courses relevant to the inputted filters.
- Parsed course data sets in the form of zip files using JSZip and processed them into JSON files for querying.
- Utilized parse5 to obtain locations for each course from the UBC Wayfinding website.
- Built a scheduler algorithm that scheduled course sections into available classrooms while maximizing student enrollment and minimizing the distance between classes.

Education

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