

Pisun Chen Lai

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EDUCATION

University of British Columbia

BCom, Combined Major in Computer Science and Business

Vancouver, BC

Sep 2018 – May 2024

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C, C++, R, HTML, CSS

Frameworks & Libraries: React, Node, Express.js, Sinon.js, MaterialUI, NumPy, Pandas, scikit-learn, Jest, JUnit

Databases: PostgreSQL, MongoDB

Developer Tools: Jira, Confluence, Postman, Git, Figma

EXPERIENCE

Software Developer Co-op

Sep 2022 – Aug 2023

Alida

Vancouver, BC

- Developed new **React components**, implemented micro-services and **backend endpoints** using **Node** along **Koa**, performed continuous unit and integration testing to ensure code correctness and validate user experience.
- Spearheaded planning, breakdown, and analysis meeting for a user permission epic, defining **functional requirements** for a feature request from Amazon Music, resulting in enhanced user roles functionality.
- Refactored and integrated new shared date range picker component with **MaterialUI** and its endpoints, improving the outdated date picker's performance by **100%** with optimized **API** calls, enabling seamless dashboard sharing.
- Enhanced customer experience by creating new endpoints leveraging **LookML** for dashboard duplication and retaining previous **Looker** infographics and calculations, improving usability and customer satisfaction.
- Collaborated with **UX** and **product teams** on product behavior considering technical edge cases, and contributed to Scrum **sprint planning** to maintain clear acceptance criteria and prevent scope creep.

Software Engineer in Test Co-op

Jan 2022 – Aug 2022

Trulioo

Vancouver, BC

- Contributed to automating tests for a web-based SaaS product by capturing requirements and enhancing the test automation framework in **TypeScript** and **C#**.
- Led the automation testing for internationalized hosted document verification, enabling **localization verification** for 12 languages by passing locales to the client and validating results to display correct information.
- Documented project details, testing methodologies, and environment setups on **Confluence** and bug findings on **Jira**, ensuring clear references to team members, improving work transparency and timely resolution of issues.
- Engaged in **regression testing** on biweekly software releases, ensuring software met quality standards.

PROJECTS

Alida Hacks 2023, 2nd Place | JavaScript, React, Node, SQL, OpenAI API, Whisper API

Mar 2023

- Leveraged Whisper API to convert speech to text, passing the prompts to OpenAI API to generate SQL queries, enabling seamless infographics retrieval for end users in a fullstack web application.
- Presented the project's design and technology stack to a company audience 150+ after the hackathon.
- Received endorsement from product and engineering leadership, identifying the project as a top priority to implement in production.

Typing Speed Test | HTML, CSS, Bootstrap, JavaScript

May 2021

- Implemented a typing test that measures a users' typing speed (words per minute) and writing accuracy.
- Utilized JavaScript to handle events and make calculations by comparing user input to correct characters.
- Implemented a real-time progress tracking and error detection, enhancing user experience during typing practice.

Storage Company Database | SQL, Java, Oracle DBMS, Swing

Oct 2020 – Nov 2020

- Collaborated with two teammates creating a database system for a fictional warehouse company.
- Designed and implemented features including storage rental for users and identifying warehouse members, developed the logical schema for the database, and wrote scripts to create and manage the database structure.
- Used normalization techniques to the database schema to follow 3NF, reducing possible data anomalies.