

Pisun Chen Lai

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EDUCATION

The University of British Columbia

BCom, Combined Major in Computer Science and Business

Sep 2018 – May 2024

Vancouver, BC

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C++, C, C#, HTML, CSS

Frameworks & Libraries: React, Node, Koa, Redux, Expo, Sinon, MaterialUI, NumPy, scikit-learn, Mocha, Jest

Databases: PostgreSQL, MongoDB

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

EXPERIENCE

Alida

Software Developer Co-op

Sep 2022 – Aug 2023

Vancouver, BC

- Developed **React components** and **Koa backend endpoints** for the Dashboards and Analytics service.
- Replaced new shared date range picker component using **MaterialUI** and its endpoints, improving the date picker's performance by **85%** with optimized **API** calls, enabling seamless dashboard sharing.
- Spearheaded the planning, breakdown, and implementation of a user permission epic requested by Amazon Music, defining **functional requirements** and enhancing functionality across **5 user roles**.
- Created endpoint for dashboard duplication with **LookML**, retaining previous infographics and calculations.
- 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.

Trulioo

Software Developer in Test Co-op

Jan 2022 – Aug 2022

Vancouver, BC

- Built automated tests for a web-based SaaS product by capturing requirements, enhancing the test automation framework in **TypeScript** and **C#**.
- Led automation testing for internationalized document verification, creating **localization checks** for **12 locales**, reducing manual testing efforts by **80%** across development, QA, and staging environments.
- Conducted **regression testing** for biweekly software releases, ensuring product adhered to quality standards.
- 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.

PROJECTS

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

- Leveraged **Whisper API** for speech-to-text conversion, integrated with **OpenAI API** to generate **SQL queries**, enabling end users to retrieve infographics in a **full-stack web application**.
- Presented the project's design and technology stack to a company **audience of ~150** after the hackathon.
- Received endorsement from product and engineering leadership, identifying the project as a top priority to implement in production.

Multi-Class Image Classifier | Python, scikit-learn, NumPy, Matplotlib

- Developed a multi-class image classification system using **Bag of Words (BoW)** alongside **SIFT descriptors**.
- Built a visual word vocabulary using **K-means** to represent images as histograms for feature extraction.
- Implemented a linear **SVM** classifier, achieving a **68.7%** accuracy to accurately classify **15** different image scenes.

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

- Collaborated with two teammates to create a database system for a fictional warehouse company.
- Designed and implemented features for users storage rental and warehouse members identification, 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.