Pisun Chen Lai

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Technical Skills

Languages: TypeScript, JavaScript, Python, Java, C++, C#, HTML, CSS, SQL
Frameworks & Libraries: React, Redux, Node, Koa, Sinon, MaterialUI, NumPy, Pandas, scikit-learn, Mocha, Jest
Databases: PostgreSQL, MongoDB
Developer Tools: Jira, Confluence, Postman, Git, Figma, Kibana

Experience

Alida   Sep 2022 – Aug 2023
Software Developer Co-op   *Vancouver, BC*

- Developed **React components** and **Koa backend endpoints** for the Dashboards and Analytics service
- Spearheaded planning, breakdown, and implementation of a user permission epic, defining **functional requirements** from Amazon Music feature requests, enhancing functionality for **5 types of user roles**
- Refactored and integrated new shared date range picker component with **MaterialUI** and its endpoints, improving the outdated date picker's performance by **100%** with optimized **API** calls, enabling seamless dashboard sharing.
- Created new endpoints using **LookML** for dashboard duplication, 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.

Trulioo   Jan 2022 – Aug 2022
Software Developer in Test Co-op   *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.
- 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 | *TypeScript, React, Node, SQL, OpenAI API, Whisper API*

- 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 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** alongisde **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 **52.4%** accuracy to classify **15** different image scenes.

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

- 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.

Education

The University of British Columbia   Sep 2018 – May 2024
BCom, Combined Major in Computer Science and Business   *Vancouver, BC*