Pisun Chen Lai

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EDUCATION

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

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, C, C++, R, HTML, CSS
Frameworks & Libraries: React, Node.js, 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 (Formerly Vision Critical) — *Vancouver, BC*
- Developed new **React components**, implemented micro-services and **backend endpoints** using **Node.js** along **Koa.js**, 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- Refactored and integrated new shared date range picker component with **MaterialUI** and its endpoints, improving the outdated date picker's performance by **100%** with optimized **API** calls, enabling seamless dashboard sharing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#**
- Tested changes from developers, documenting test cases covering happy paths and edge cases, writing detailed notes on bugs that could be replicated, ensuring thorough testing and communication with the development team
- 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.js, 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 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 – 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 teammate creating a database system for a fictional warehouse company
- Designed features such as storage space rental for users and identifying customers that are members of a warehouse
- Used normalization techniques to the database schema to follow 3NF, reducing possible data anomalies