

Kevin Peng

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EDUCATION

University of British Columbia - Vancouver, Canada

Sept 2018 - May 2023

BASC Integrated Engineering - Computer Engineering Major, Electrical Engineering Minor

Awards: Trek Excellence Scholarship (top 5% of the undergraduate year), Paul Robertson Scholarship, Rutherford Scholars Award, Alexander Rutherford Scholarship for academic excellence, UBC Dean's Honour List

Relevant Courses (89% GPA): Data Structures and Algorithms (C), Digital Systems and Microcomputers (Assembly), Computation in Engineering Design (C), Intermediate Engineering Design (Full-stack development)

SKILLS

Programming Languages: JavaScript, Java, Python, C, Assembly, TypeScript, HTML, CSS, SASS

Libraries and Tools: React, MongoDB, NodeJS, ExpressJS, Redux, Redux-Saga, Capacitor, jQuery, RESTful APIs, HTTP, CORS, Docker, Jira, Git, Github, Bitbucket, GitLab

WORK EXPERIENCE

Software Developer Co-op

Sept 2021 - Dec 2021

FISPAN

Vancouver, Canada

- Took initiative for the development of features for internal admin app that manages client profiles with services directing over 75k total monthly transactions for major banking clients.
- Implemented UI enhancements that increased administrator tools usability using React, Redux, and SASS, and published feature updates for reusable components and utilities for internal NPM packages.

Software Engineer Intern

May 2021 - Aug 2021

Excelar Technologies

Vancouver, Canada

- Took ownership of frontend development and implemented responsive features, component refactors, and ad-hoc bug fixes for a consultancy PWA project with urgent deadlines.
- Developed reusable UI features including mobile layouts, infinite scrolling, and data filtering components with TypeScript and ReactJS, and implemented global state management and asynchronous side-effect handling with Redux and Redux-saga.
- Implemented service methods for handling API calls to return and modify data from the backend.
- Contributed to agile sprints, daily stand-ups, and peer code review, and made refactors to increase codebase modularity and minimize technical debt.

Software Developer (Part-time)

May 2020 - Dec 2021

UBC Visual Cognition Labs

Remote

- Implemented routing and middleware refactors, UI improvements, and dynamic experiment timeline generation algorithms for JavaScript/NodeJS web framework designed to run custom online psychology experiments.
- Developed detailed framework documentation, and revamped onboarding materials to streamline remote onboarding.
- Took initiative of internal MERN stack web-app development team by leading development efforts, designing full-stack architecture, managing team responsibilities, and leading developer hiring processes.
- Implemented JWT user authentication system, including NoSQL user data models, registration, and authentication API endpoints with NodeJS, ExpressJS, and MongoDB.

PROJECT EXPERIENCE

Technical Lead + Fullstack Developer

Sept 2020 - Apr 2021

Overlap Project - Awarded 1st Place for IGEN Design and Innovation ([Project Link](#))

Vancouver, Canada

- Managed a team of 6 to develop a MERN stack web app for group playlist generation and music data representation.
- Designed full-stack app architecture, and implemented features including reusable UI components with ReactJS, bidirectional data models with MongoDB, and implemented a REST API backend with NodeJS and ExpressJS.
- Led weekly sprint meetings, conducted code reviews, taught web architecture and fundamental design principles, and delegated tasks for the entire team.

Shoppie ([Project Link](#))

May 2020 - Dec 2020

- Utilized MongoDB, ExpressJS, ReactJS, and NodeJS in addition to the Gmail API to track and catalogue sales from retail brands.
- Implemented REST API endpoints, designed MongoDB data schemas, and implemented keyword search and sorting algorithms.
- Designed and developed the frontend architecture and ReactJS components with Material UI.

Health Tracker App ([Project Link](#))

Dec 2019 - Apr 2020

- Designed and developed an interactive desktop app that aggregates user input to track personal health data.
- UI developed using MVC design principles with JavaFX along with CSS styling and implemented CRUD operations for persistent local data storage.