

Kefan (Kevin) Peng

UBC Integrated Engineering Student

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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 (ReactJS, MongoDB, RESTful API design)

SKILLS

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

Libraries and Tools: React, MongoDB, NodeJS, ExpressJS, Redux, jQuery, Bootstrap, RESTful APIs, HTTP, Jira, Git, Github

EXPERIENCE

Software Engineer Co-op

May 2021 - Aug 2021

Excelar Technologies

Vancouver, Canada

- Implemented frontend features, component refactors, and ad-hoc bug fixes for PWA designed to provide resources to reduce homelessness in Vancouver.
- Developed reusable UI features including auto-sizing, infinite scrolling, and data filtering components with ReactJS and implemented global state management and asynchronous side-effect handling with Redux and Redux-saga.
- Contributed to daily stand-ups and peer code-review.

Software Developer

May 2020 - Aug 2021

UBC Visual Cognition Labs

Remote

- Worked with a multidisciplinary team of 7+ members to develop the custom JavaScript/NodeJS web framework for running online psychology experiments.
- Implemented routing and middleware refactors, UI improvements, and dynamic experiment timeline generation algorithms.
- Maintained detailed framework documentation, and revamped onboarding materials to streamline remote onboarding.

Technical Lead + Fullstack Developer

Sept 2020 - Apr 2021

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

Vancouver, Canada

- Led a team of 6 to develop a MERN stack web-app for group playlist generation and music data representation with the Spotify API.
- Implemented high and low-level designs full-stack, including reusable UI components with ReactJS, bidirectional data models with MongoDB, and 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.

TECHNICAL PROJECTS

Shoppie ([Project Link](#))

May 2020 - Dec 2020

- Utilized MongoDB, Express.js, React, and Node.js in addition to the Gmail API to catalogue and sort sales from various brands.
- Implemented REST API endpoints, and designed MongoDB models with 1-to-many relationships to store sales and company data.
- Implemented a keyword searching algorithm, and sorting algorithms implemented using merge-sort.
- Designed reusable UI components using Material UI, React, and CSS.

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

Dec 2019 - Apr 2020

- Utilized Java to develop a desktop app that aggregates user input for mental health, physical health, and overall happiness to track health over a long period of time.
- UI developed using MVC design principles with JavaFX along with CSS styling.
- Implemented create, read, update, and delete operations for persistent local data storage with JSON objects.