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, TypeScript, Java, Python, C, Assembly, HTML, CSS
Libraries and Tools: React, MongoDB, NodeJS, ExpressJS, Redux, Redux-Saga, Capacitor, jQuery, RESTful APIs, HTTP, CORS, Jira, Git, Github, Bitbucket

WORK EXPERIENCE

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 ReactJS and implemented global state management and asynchronous side-effect handling with Redux and Redux-saga.
- Contributed to agile sprints, daily stand-ups, and peer code review, and made refactors to increase codebase modularity and minimize technical debt.

Software Developer   **May 2020 - Apr 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 new 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.

Shopple (**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.