

Kevin Peng

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EDUCATION

University of British Columbia - Vancouver, Canada

Sept 2018 - May 2023

BASc Integrated Engineering (with Distinction) - Computer Engineering Major, Electrical Engineering Minor (90% GPA)

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 (x4)

SKILLS

Programming Languages: JavaScript, Kotlin, Python, Java, TypeScript, SQL

Technologies: React.js, MongoDB, Node.js, React Native, Ktor, Flask, MySQL, JUnit 5, HTML, CSS, Docker, Jira, Git, AWS (EC2, SNS)

WORK EXPERIENCE

Software Engineer Intern

Jan 2022 - Aug 2022

SAP Concur

Vancouver, Canada

- Implemented frontend components and accessibility refactors for React.js and legacy codebase (ASP.NET) impacting over 900,000 end users, and presented accessibility findings to engineers and product managers to simplify future accessibility development.
- Developed numerous endpoints and implemented robust features for multiple microservices consuming other services and interfacing with MySQL databases using Kotlin and Ktor.
- Implemented Kibana watchers and alerts for critical service performance and error detection.
- Refactored unit test suites for service classes using JUnit 5 and MockK resulting in decreased average test runtime by 74%.

Software Engineer Intern

Sept 2021 - Dec 2021

FISPAN

Vancouver, Canada

- Developed features for multiple administrative micro-frontends that managed product services directing over 75k total monthly transactions for major banking clients.
- Implemented frontend components, reactive and asynchronous logic, and API data layers using React.js, Redux, and Node.js, and published feature updates for reusable components and utilities as internal NPM packages.
- Translated customer experience feedback and user needs from UX teams into full-stack designs and implementations.
- Developed BBF (backend for frontend) endpoints using Node.js, and implemented database interface layers with MongoDB

Software Engineer Intern

May 2021 - Aug 2021

Excelar Technologies

Vancouver, Canada

- Took ownership of frontend development and implemented responsive features, API service layer, and ad-hoc bug fixes for a ground-up PWA project MVP.
- Developed reusable UI features including mobile layouts, infinite scrolling, and data filtering components translated from Figma and InVision designs using TypeScript, React, and SASS.
- Implemented state management and asynchronous side-effect handling with Node.js, Redux and Redux-saga.

Software Engineer (Part-time)

May 2020 - Jan 2021

Lead Software Engineer (Part-time)

Jan 2021 - Dec 2021

UBC Visual Cognition Labs

Vancouver, Canada

- Led content platform development team. Led full-stack development efforts and developed high-level designs and architecture.
- Implemented JWT user authentication system, including NoSQL user data models, registration, and authentication API endpoints with Node.js, Express.js, and MongoDB.
- Worked with UI/UX designers to translate broad user needs and Figma designs into working feature implementations with React.js and TypeScript.
- Implemented routing and middleware refactors, UI improvements, and dynamic experiment timeline generation algorithms for experimentation web framework with JavaScript/Node.js.

PROJECT EXPERIENCE

Sentinel - Bike Alarm ([Project Link](#))

Sept 2022 - Apr 2023

- Spearheaded full-stack software architecture design and implementation, and developed a responsive event-driven backend with SMS, Websocket, and MQTT communication using Nest.js and AWS SNS, in addition to user registration and authentication.
- Developed mobile app design with Figma and implemented design features into a completed app using React Native and Expo.

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 software developers, data analysts, and UI/UX designers to develop a MERN stack web app for shared playlist generation and music data representation.
- Designed full-stack app architecture, and implemented features including reusable UI components with React.js, bidirectional data models with MongoDB, SSO with the Spotify API, and implemented a REST API backend with Node.js and Express.js.
- Led weekly sprint meetings, conducted code reviews, and taught web architecture and fundamental design principles.