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 (90% GPA): Computer Communications, Data Structures and Algorithms (C), Digital Systems and Microcomputers (Assembly), Advanced Engineering Design (Full-stack development), System Software Engineering (Python)

SKILLS

Programming Languages: JavaScript, Kotlin, Python, Java, C, TypeScript, SQL, Assembly, ASP
Technologies: React.js, MongoDB, Node.js, Redux, React Native, Ktor, Flask, MySQL, JUnit 5, HTML, CSS, Docker, Jira, Git, AWS (EC2, SNS)

WORK EXPERIENCE

Software Developer iXp 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 business logic code for REST microservices 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 Developer Co-op   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, 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.

Software Engineering 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 and React.
- Implemented state management and asynchronous side-effect handling with Node.js, Redux and Redux-saga.

Software Developer (Part-time)   May 2020 - Jan 2021
Lead Software Developer (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 and Node.js.
- Implemented routing and middleware refactors, UI improvements, and dynamic experiment timeline generation algorithms for experimentation web framework with 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 and Websocket 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.