Kevin Peng

kevinpkf@gmail.com • (403)-390-5716

https://www.linkedin.com/in/-kevin-peng • https://kevinetpeng.github.io/personal-portfolio • https://github.com/KevinetPeng

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: ReactJS, MongoDB, NodeJS, 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*
- Owned frontend components and accessibility refactors for ReactJS and ASP.NET product improving user experience for over 2,200,000 end users, and presented accessibility findings to engineers and product managers to simplify future 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*
- Owned feature development for multiple micro-frontends for product directing over 75k total monthly transactions for banks and clients, and acted as POC for UI designers and product managers.
- Implemented frontend components, reactive and asynchronous logic, and API data layers using ReactJS, Redux, and NodeJS, 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 NodeJS, and implemented database interface layers with MongoDB

Frontend Software Engineer Intern   May 2021 - Aug 2021
Excelar Technologies   *Vancouver, Canada*
- Spearheaded frontend development and implemented responsive features, API service layer, and ad-hoc bug fixes for a ground-up mobile PWA product.
- 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 NodeJS, Redux and Redux-saga.

Software Developer (Part-time)   May 2020 - Jan 2021
Lead Software Developer (Part-time)   Jan 2021 - Dec 2021
UBC Visual Cognition Lab   *Vancouver, Canada*
- Owned an entire project from inception to delivery, and managed an interdisciplinary team of Software Developers, UI/UX designers, and cognition researchers.
- Led full-stack development efforts, developed high-level designs and architecture, conducted engineering interviews, and reviewed code for all developers on the team using TypeScript, ReactJS, NodeJS, and MongoDB.
- Implemented JWT user authentication system, including NoSQL user data models, registration, and authentication API endpoints with NodeJS and MongoDB.
- Implemented codebase refactors, endpoints, frontend features, and dynamic experiment generation algorithms for experimentation web framework with JavaScript/NodeJS, paving the way for the team's first cloud deployment of the framework.

PROJECT EXPERIENCE

Sentinel - Bike Alarm   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 NestJS 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.

Overlap Project - Awarded 1st Place for IGEN Design and Innovation   Sept 2020 - Apr 2021
- 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 ReactJS, bidirectional data models with MongoDB, SSO with the Spotify API, and implemented REST API backend with NodeJS and ExpressJS.
- Led weekly sprint meetings, conducted code review, and taught web architecture and fundamental design principles.