Kevin (Kefan) 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: Data Structures and Algorithms (C), Digital Systems and Microcomputers (Assembly), Computation in Engineering Design (C)

SKILLS

Programming Languages: Javascript, Java, Python, C, Assembly, HTML, CSS
Libraries and Tools: React, MongoDB, NodeJS, ExpressJS, jQuery, Bootstrap, Git, Github, RESTful APIs, HTTP, Heroku, Figma

EXPERIENCE

Software Developer   **May 2020 - Apr. 2021**
UBC Visual Cognition Labs   *Remote*
- Worked with a multidisciplinary team of 7+ members to develop the custom Javascript/Node.js 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 (Project Link)   **Sept 2020 - Apr 2021**
Overlap Project   *Vancouver, Canada*
- Led a team of 6 in developing a MERN stack web-app for music merging with the Spotify API.
- Implemented high and low-level designs full-stack, including reusable UI components with React, 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.

Freelance Developer (Project Link)   **June 2020 - Sept 2020**
UBC Bulletine Project   *Vancouver, Canada*
- Developed project website with HTML/CSS/JavaScript in addition to SASS and jQuery while working with 2 clients.
- Designed iteratively with frequent client feedback sessions with a focus on user-friendly navigation and website responsiveness.

TECHNICAL PROJECTS

Shopple (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 backend RESTful API routes and middleware using ExpressJS, and designed MongoDB data models with 1-to-many relationships to store sale and company data.
- Implemented a keyword searching algorithm, and sorting algorithms implemented using merge-sort.
- Designed modular, 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 in the form of JSON objects.