

PAK SHING KAN

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EDUCATION

San Jose State University – San Jose, CA
Bachelor of Science, Computer Science
GPA: 3.8/4.0

Expected graduation: December 2021

TECHNICAL SKILLS

- **Languages:** Java (primary), JavaScript, Python, C, HTML, CSS
- **Web Frameworks:** React.js, Node.js, Express.js, Django
- **Databases:** Firebase, MongoDB, MySQL
- **Other:** HTTP protocol, Linux, Git, Shell, Tomcat, JSP, AWS

EXPERIENCE

Infinite Options – San Jose, CA

May 2020 – August 2020

Full Stack Developer

- Delivered web-based calendar using **React.js** to support activity scheduling for a group of **15** caretakers and memory loss patients
- Implemented responsive frontend UI components with **React.js** and RESTful APIs with **Node.js & Express.js**, resulting in a **30%** functionality enhancement
- Enhanced algorithms & business logic, leading to a **95% accuracy improvement**
- Optimized NoSQL database model with **Firebase** for better flexibility on data management

PROJECTS

Personal Portfolio: <https://infallible-archimedes-bac115.netlify.app>

Vaccine Guide - **Demo** : <https://github.com/Pakshing/VaccineGuidecuHacking>

January 2021 - January 2021

- Won “**Best Use of Google Cloud Award**” at “**cuHacking 2021**” among **600 hackers**
- Converted **Figma** design to responsive frontend user interface & animation with **React.js, HTML, CSS**
- Optimized **data visualization** with **Chart.js** and architected dynamic graphs navigation mechanism

Travel Log - <https://travel-log.pakshing.vercel.app>

September 2020 – January 2021

- Launched interactive map using **Mapbox GL JS** and **React.js** to enable users to record and visualize travels
- Established backend APIs with **Node.js & Express.js** for storing & retrieving user’s journeys from **MongoDB Atlas** and displaying journeys as location points accordingly on the map
- Streamlined photo upload pipeline for users to set each journey’s cover picture using **AWS S3**

Danger Alert - <https://github.com/Pakshing/CS157A-section9-team10>

September 2020 – December 2020

- Engineered **Java** three-tier architecture web application with **HTML, CSS** frontend, **Tomcat** server, and **MySQL** database
- Conducted **Entity Relationship Diagram(ERD)** and translated it to **relational schema**
- Constructed **Java Servlet** backend for handling user input and interact with **MySQL** database

Developer Connector - <https://tinyurl.com/y68kfw4r>

July 2020 – August 2020

- Developed social network platform for software engineers to share posts & thoughts
- Created extensive backend API with **Node.js & Express** for managing user profile and post data
- Designed interactive frontend UI using **React.js** and integrated **Redux** library for centralizing data
- Modeled **Mongoose** object data modeling with **NoSQL database, MongoDB Atlas**

COMMUNITY INVOLVEMENT

Member: Hoplite SJSU (Interview prep club), Software and Computer Engineering Society (SCE)

Hackathons & Competitions: University of British Columbia’s “nwHacks 2021”, MLH’s “cuHacking 2021”