

# KIMHENG PENG

San Francisco, California, United States

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A Software Engineering Enthusiast with a passion for learning and problem-solving. Eager to apply my skills and knowledge in tech to assist the growth and success of a company. Looking to continuously develop my skills and gain experience while building meaningful relationships and leadership quality.

## EDUCATION

**AUGUST 2021 – EXPECTED: MAY 2023**

COMPUTER SCIENCE BS, SAN FRANCISCO STATE UNIVERSITY | GPA: 3.97

## EXPERIENCE

**AUGUST 2019 – MAY 2020**

PEER INSTRUCTOR/MATH TUTOR, STEM CENTER, SKYLINE COLLEGE

- Tutoring 10+ students and assisting them with their classwork and homework.
- assisting professors and answering questions in class.

## INTERESTS

- Sports: soccer, badminton, swimming
- Listening to music & podcast
- Working out
- Playing games

## SKILLS

- Fast & Adaptive Learner
- Problem Solving & Algorithms
- Proficient in C, C++, Java, JavaScript, Python
- Backend Knowledge: Node JS, Express JS, WebSocket, Migration, Session
- Team leading and management
- Deployment: AWS, RDS, S3, EC2, Vercel
- Database: SQL, MYSQL, PostgreSQL, MongoDB
- Frontend Knowledge: HTML, CSS, Handlebars, ReactJS, TailwindCSS, Vite

## RELEVANT COURSES

Object Oriented Programming, Data Structure, Software Engineering, Analysis of Algorithms, Operating System, Internet Application Design and Development, Unix Programming

## PROJECTS

### React Responsive Portfolio (June 2023)

- Developed a responsive React portfolio web application using Vite as the bundler and TailwindCSS for styling.
- Ensured mobile responsiveness to provide an optimal user experience across devices.
- Deployed the portfolio on Vercel to make it accessible online.
- **Technology:** React, Vite, TailwindCSS, Material UI
- **Portfolio link:** <https://kimheng-portfolio.vercel.app/>

### MERN Stack Bakery Web Application (May 2023)

- Collaborating with a friend on a personal learning project with a focus on both frontend and backend development.
- Designed the backend using the MVC pattern to ensure a well-organized and scalable architecture.
- Implemented a fully functional shopping cart and checkout system, along with an admin dashboard for the website owner to add, update, or delete products, demonstrating a deep understanding of e-commerce web application development.
- Utilized AWS S3 for image storage and planning to deploy the web application on AWS EC2, showcasing strong knowledge of cloud deployment and infrastructure management.
- Implemented AWS Route 53 to create a hosted zone and assign a domain.

**Link:** <https://breaking-bread.kimheng-server.live/>

**Technology:** NodeJS, ExpressJS, MongoDB, ReactJS, Material UI, AWS S3

### Multiplayer Texas Hold'em Poker Game (December 2022)

- Led the backend development of a multiplayer poker game with real-time updates for players.
- Implemented session management and authentication, allowing users to log in and play multiple games simultaneously.
- Worked collaboratively with a team of 4 to develop the game mechanics for both the front-end and back-end, which included card dealing, betting, and winning conditions.
- Successfully deployed the web application and database on Render (Expired)

**Technology:** HTML, CSS, Javascript, NodeJS, ExpressJS, WebSocket, Session, Migration, PostgreSQL, Render.

### Workout Application Website - Node Fit (August 2022)

- Spearheaded the backend development of a workout application utilizing Express.js, and deploying the backend with AWS
- Implemented session allowing users to create an account, log in, and customize their workout routine.
- Collaborated with a team to develop the front-end using ReactJS, managing data passed from the backend
- Learned about the software development lifecycle through documentation, testing, planning, and database design, providing valuable insight into the process of software application development.

**Technology:** NodeJS, ExpressJS, MySQL, Session, AWS EC2, AWS RDS