

Zenan Han

(510) 833-3945 | zenan.han@berkeley.edu | <https://zenanhan.com/> | [@zenanana](#)

EDUCATION

University of California, Berkeley · Overall GPA: 4.00/4.00

Berkeley, CA

B.A. Computer Science, B.A. Data Science

Class of 2024

· Courses: Probability Theory, Data Structures & Algorithms, Interpretation of Computer Programs, Linear Algebra, Designing Information Systems

Raffles Institution (High School) · Overall GPA: 4.00/4.00

Singapore, SG

Singapore – Cambridge GCE A-Levels

PROFESSIONAL EXPERIENCE

ArcLab

Singapore, SG

Software Engineering Intern (Full Stack)

February 2021 · August 2021

- Built upon and rolled out MERN stack web applications to analyze and organize real-time user learning statistics for employers
- Implemented new features such as geofencing with Google Maps Embed API and user-customizable Open Graph settings for modules
- Deployed production-ready code regularly, and squashed development and live bugs constantly
- Spearheaded testing switch from end-to-end to unit and integration testing with Jest and React Testing Library
- Improve unit and integration testing coverage by 40% and testing speeds by 30%
- Worked on various parts of JavaScript libraries to understand key performance and correctness issues, engineering solutions around them

Singapore Armed Forces (SAF)

Singapore, SG

Administrative Clerk & Developer (Web Applications)

February 2019 · February 2021

- Developed web applications for the Singapore Armed Forces' 8th Infantry Battalion while doing clerical work during military enlistment
- Engineered web full stack web applications calling external APIs for automation of HR and menial tasks related to typical clerical work
- Constantly learned new technologies swiftly, such as Angular, React ecosystem, NoSQL databases, Firebase, etc.

PROJECTS

Dispersal Automator (public ver.)

April 2019 · February 2021

- Sole developer and maintainer of web application for SAF 8th Infantry Battalion that automates new soldier dispersal methods
- Automatically generates public transport times from entered postal code to 54 different locations, reducing time taken from 2min to 2sec
- Used Angular2 for the front end, Firebase as BaaS, MongoDB Atlas for the database, and Google Maps Matrix for API calls

DeepL Texttractor

November 2020

- Developed auto-translator leveraging DeepL's free browser translating service without the need for DeepL's paid API services
- Automatically translates anything copied onto a user's clipboard to up to 10 different languages in less than 0.5 seconds
- Used Python for the main logic, Selenium for web browser automation and simulation, and Tkinter for application's user interface

Star Whales (CalHacks)

October 2021

- Created motion-controlled web game with pure JavaScript in less than 48 hours for CalHacks 2021 hackathon
- Used JavaScript for game logic, Planck.js as a physics engine, Handtrack.js for tracking video input motion, and GitHub Pages to deploy

AWARDS

Dean's List

Fall 2021

- Awarded to top students in the college each semester

SKILLS

Languages: Python · JavaScript · TypeScript · HTML/CSS · Java · JSON · Git

Stack: React.js · Angular · Node.js · MongoDB · Serverless (Firebase, AWS) · Jest · Testing Library · WordPress