

Victor S. Ye

OBJECTIVE

Diligent and proactive college graduate with extensive education and practical experience in synergistic software and application development seeking Software Engineering opportunities to apply honed knowledge.

EDUCATION

University of California, Santa Cruz | Computer Science BS | 3.41 | Dec 2020

- **Courses:** Software Design, Software Engineering, Web Applications, Mobile Applications, Artificial Intelligence

SKILLS

- **Technical Skills:** Python, Java, Javascript, Node.js, React, C/C++, Swift, SQL, Linux, REST, HTML, LaTeX
- **Languages:** Fluent in English, Cantonese, and Mandarin

PROJECTS

Interpreting EEG Data of Video Stimuli (Python) | Jan. 2020 - Mar. 2020

- Implemented a CNN model to classify brain activity from 5 categories of visual stimuli, achieving more than double accuracy than random. Utilized multilevel preprocessing techniques including filtering, interpolations, and FFTs.
- Led project with team of 3 and communications with professor and TAs.

Nutrient Plus Nutrient Tracker (IOS Swift) | Sept. 2019 - Dec. 2019

- Designed and implemented food recommendation algorithm to best suggest foods to fulfill daily nutritional needs, integrated with the USDA's FoodData Central API to beautify nutrient data for best user experience.
- Coordinated with team members using best SCRUM practices and Agile methodology.

Fridge Buddy (Android Java) | Apr. 2019 - June 2019

- Created an Android food pantry application that generates recipe recommendations based on food stores, integrated with a barcode scanner and nutrition libraries to allow users to effortlessly input food nutrition data.
- Built and maintained application SQLite database for optimal performance.
- Devised project plan, mock ups, and communications with professor as Product Owner.

Multithreaded Password Decrypter (C++) | Dec. 2018

- Created a multicasted-multithreaded system to four 24 core servers to decrypt passwords sent by a master client.
- Achieved approximate parallelization by pooling processes into a thread queue to optimize decryption efficiency.

PROFESSIONAL EXPERIENCE

Capstone: Consumer Health Portal (React Node.js) | Accolade | Jan. 2020 - June 2020

- Developed a React webapplication that collates health data from a user's authenticated third-party healthcare data sources and updates a dynamic frontend component in real time.
- Created API endpoints that fetches, transforms, and then posts new health data to Accolade database.
- Designed modular OAuth and data manipulation flow to prioritize component reusability.

Learning Technologies IT Consultant | UC Santa Cruz | Jan. 2020 - Mar. 2020

- Diagnose, determine root cause and resolve software issues of computer lab workstations.
- Implement organization information and technology security standards for safety of computer patrons.

Housing Authority Office Intern | San Francisco, CA | June 2014 - Aug. 2014

- Built and maintained online database system for tenant and housing information.
- Constructed mappings and filtered data to be more relevant and accessible for different groups.

HOBBIES

Volunteering with kids, Woodworking, Hiking, Biking, Gaming