

# SIMON YONG

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## EDUCATION

### University of California, Los Angeles (UCLA)

September 2018 - June 2022

B.S. in Computer Science and Engineering

- Cumulative GPA: 3.39
- Relevant Courses: Introduction to C++, Introduction to Computer Organization, Introduction to Algorithms, Introduction to Computer Languages

## TECHNICAL SKILLS

Coding: Typescript, C#, React, C++, Python

## PERSONAL PROJECTS

Personal Profile: <https://simon-developer-profile.vercel.app/>

### Web-based PDF Translator

- Translate texts in PDF form from Mandarin into English and view versions side by side
- Wrote a python script to load original PDF text into a MySQL database
- Made use of Javascript and React for frontend rendering of original and translated pages
- Implemented MySQL and NodeJS to store and load translated phrases

### Chinese Chess on Python

- Built a replica of Chinese Chess, playable by 2 players
- Exercise in object-oriented programming, where each piece is an object that can interact with others

## WORK AND ADDITIONAL EXPERIENCE

### Software Developer at Epic

September 2022 - April 2024

- Used Typescript and C# to write validation functions that sync date information between two different functional areas, validating the status of a coverage on any given date
- Loaded filtered coverage billing data from databases to the client application to use in real time
- Fixed issues across the Registration application including crashes and functional tweaks
- Collaborated in peer code reviews
- Refactored SQL queries that extract EHI for performance improvements

### Summer Internship at OHZONE

June 2021 - September 2021

- Wrote a new program using OpenCV that finds rotation and translation matrices between images using shared points/markers
- Created a sorting function which determines the optimal order of images to run a rigid transformation function
- Converted scripts from python to c++ for added compatibility with other code
- Researched 1 competitor company regarding different methods used to construct models

### Online Instructor at ID Tech

October 2020 - September 2021

- Customized lessons for students in order to expose them to computer programming
- Taught students on basic and intermediate subjects, including using a debugger, conditionals, loops, and data structures

### Math Tutor at Mathnasium

December 2016 - June 2018

- Taught 10+ kids in short 1-on-1 sessions about math at various levels, ranging from basic addition to pre-calculus
- Engaged with parents in order to adjust and improve teaching methods