CURTIS CHEN

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EDUCATION

University of California, Los Angeles June 2025

Bachelor's, Computer Science

GPA: 3.873

- Relevant Courses: Algorithms, Data Structures, Software Construction, Computer Architecture, Operating Systems, Multivariable Calculus, Machine Learning, Data Science; Currently Taking: Computer Vision

PROFESSIONAL EXPERIENCE

Rosemead Dental Laboratory Inc, Rosemead, CA, USA

Software Engineer Intern June 2024 - Present

- Develop and build a comprehensive commerce website tailored to company's needs
- Coordinate roles based on different skillsets and ensure deadlines were met as team leader
- Enhance website's style and UI to improve user experience and implement secure login features to access prices
- Assist with creation of neural network for detecting cavities, along with data processing pipeline from machine to computer

Qing Hui Fu DDS Inc, Alhambra, CA, USA

Technology Intern August 2023 - Present

- Developed and implemented technical solutions, including automating patient communications and optimizing data management processes, reducing administrative errors and enhancing clinic efficiency
- Provided IT support by conducting software updates and troubleshooting for over 20 machines weekly
- Facilitated staff training by explaining technical concepts in simple terms, enabling adoption of new dental tools and systems

University of California - Los Angeles, Los Angeles, CA, USA

Tutoring Chair September 2022 - Present

- Organize and lead large-scale review sessions and practice nights for core computer science courses
- Coach and mentor students in subjects such as data structures, algorithms, machine learning, AI, databases, and more
- Offered personalized support to students on homework and challenging topics in various subjects

PROJECTS & OUTSIDE EXPERIENCE

Web App: Personal Fitness

React.js, CSS, HTML, Firebase

- Create personal health web app allowing users to select customized workout plans and food recipes
- Lead team and provided guidance to complete weekly deadlines following Agile Software Development
- Employ algorithms to sort through workouts and recipe database based on user preference and information

Machine Learning: Cavity Detection

Python, Pytorch, Pandas, Numpy

- Trained and fine-tuned EfficientNet Neural Network for binary classification to automate cavity detection from dental images.
- Engineered a robust data pipeline for preprocessing, augmentation, and efficient handling of large dental image datasets
- Customized and optimized EfficientNet architecture to enhance classification accuracy, achieving high accuracy (90%) tailored for clinical use as an additional check

PDF File Converter and Merger

Python, File Management

- Build a Python script automating the conversion of image files (JPEG, PNG) into PDFs and merging
- Add customizable features, enabling users to selectively delete modified files or clear all files post-processing
- Identify personal problem with security risks and unreliability of online PDF mergers and addressed it

Battleship Project with AI

C++

- Implement various data structures (linked lists, 2d arrays, stacks, classes, etc.) with several programming techniques (recursion, etc.) to create a functional battleship game
- Player can play against another person or AI (3 modes: easy, classic, hard)
- Leverage knowledge of inheritance, polymorphism, recursion, and data structures

SKILLS

Skills: Python, Tensorflow, PyTorch, JavaScript, React.js, HTML/CSS, C/C++, Firebase, Git

Languages: Mandarin, Cantonese