CURTIS CHEN

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EDUCATION

University of California - Los Angeles   September 2021 - June 2025
Bachelor's, Computer Science   *GPA: 3.89*

PROFESSIONAL EXPERIENCE

Rosemead Dental Laboratory Inc.   Rosemead, CA, USA
Software Engineer Intern   *June 2024 - Present*
- Develop and build a comprehensive commerce website tailored to the company's needs
- Coordinate roles based on different skillsets and ensure that deadlines were met as team leader
- Enhance and refine the website's style and user interface 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 devices weekly, resolving inventory-related issues, and improving system reliability.
- Collaborated with medical staff and assisted Cantonese-speaking patients, effectively handling scheduling and complex communication needs.

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
- Provide personalized support to students by guiding them through homework and challenging topics in various subjects

PROJECTS & OUTSIDE EXPERIENCE

AskDirectory – AI-Powered File Querying Web App
React.js,Bootstrap,Node.js,Gemini API
- Built an AI-driven web app that enables users to query PDF files in natural language and receive precise answers.
- Integrated Google Gemini 2.0 for document analysis, automating data retrieval from resumes, reports, and more.
- Developed frontend with React.js and Bootstrap, and backend with Node.js for seamless query handling

Web App: Personal Fitness
React.js, CSS, HTML, Firebase
- Personal health web app that allows users to select customized workout plans and food recipes
- Allows users to make an account and upload their personal information to the server
- Search through database of workouts and recipes and sorts them based on user preference and personal 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

SKILLS

Skills: JavaScript, React.js, Node.js, SQL, HTML/CSS, Bootstrap, Python, Git, Java, C/C++, Tensorflow, Firebase
Languages: Mandarin, Cantonese