

Kai Chang

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GitHub: github.com/kaichang1

Portfolio: kaichang1.github.io

Education

Oregon State University Bachelor of Science in Computer Science	June 2023 GPA: 4.0
University of the Pacific Arthur A. Dugoni School of Dentistry Doctor of Dental Surgery (DDS)	June 2016
University of the Pacific Bachelor of Science in Biology	May 2013 GPA: 3.94

Projects

Breakout AI github.com/kaichang1/breakout-ai	Game Development Machine Learning
<ul style="list-style-type: none">Collaborated in a team of three developers to create a Brick Breaker game, featuring an advanced AI opponent for player-versus-AI gameplay.Continued development independently by forking the original repository, emphasizing advancements in ML capabilities as well as in gameplay, UI, and UX.Built with C#, Unity, and the Unity ML-Agents Toolkit using Continuous Integration. Trained the AI opponent using a combination of reinforcement and imitation learning.	
Marina Management API github.com/kaichang1/marina-management-api	Back-End Web Development Cloud Computing
<ul style="list-style-type: none">Developed a cloud-based REST API utilizing a NoSQL database to help manage boats in a marina.Built with Node.js, Express.js, and Google Cloud Platform. Tested with Postman.	
Stock Article Analyzer github.com/kaichang1/stock-article-analyzer	Full-Stack Web Development Data Analysis
<ul style="list-style-type: none">Created a website to analyze stock articles. Analysis results include a parsed list of all stocks mentioned, sentiment analysis to determine article tone, and selected key sentences from the text.Built with Python, Flask, and Bootstrap using Agile Scrum methodology and Jira for task management.	

Technical Skills

Languages

- Proficient:** Python, C#, SQL
- Familiar:** JavaScript, C/C++, HTML, CSS

Frameworks & Technologies: Git, Node.js, Express.js, React.js, Flask, Bootstrap, Google Cloud Platform, Postman, Unity Game Engine

Work Experience

General Dentist: LC Dental, Goh Smile Dental Care	Nov 2017 – Dec 2021
<ul style="list-style-type: none">Employed critical thinking and problem-solving skills to diagnose complex cases and develop effective treatment plans.Exhibited strong teamwork and leadership skills by coordinating and communicating with a team of five staff members to ensure smooth and efficient office operations.	
Dental Resident: Community Regional Medical Center	July 2016 – June 2017
<ul style="list-style-type: none">Utilized adaptability and time-management skills to perform routine and hospital dentistry in a Level 1 Trauma Center.Demonstrated ability to respond quickly, effectively, and reliably in high-pressure situations through 24-hour on-call responsibilities for dental emergencies.	