Kai Chang

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GitHub: github.com/kaichang1
Portfolio: kaichang1.github.io

Education

Oregon State University	June 2023
Bachelor of Science in Computer Science	GPA: 4.0

University of the Pacific Arthur A. Dugoni School of Dentistry	June 2016
Doctor of Dental Surgery (DDS)	

University of the Pacific	May 2013
Bachelor of Science in Biology	GPA: 3.94

Projects

Breakout AI   **Game Development | Machine Learning**
github.com/kaichang1/breakout-ai
- 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   **Back-End Web Development | Cloud Computing**
github.com/kaichang1/marina-management-api
- 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   **Full-Stack Web Development | Data Analysis**
github.com/kaichang1/stock-article-analyzer
- 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, Java, SQL
- **Familiar:** JavaScript, C#, 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
- 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
- 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.