Kai Chang

E-mail: kaichangtech@gmail.com

Portfolio: kaichang1.github.io
GitHub: github.com/kaichang1
LinkedIn: linkedin.com/in/kai-hsiang-chang/

Education

Oregon State University	Sept 2021 – Jun 2023 (Expected)
B.S. Computer Science	GPA: 4.0

University of the Pacific Arthur A. Dugoni School of Dentistry	July 2013 – June 2016
Doctor of Dental Surgery (D.D.S.)	

University of the Pacific	Aug 2010 – May 2013
B.S. Biology	GPA: 3.94

Projects

Neural Network
github.com/kaichang1/neural-network
- Developed a feedforward neural network utilizing backpropagation using **Python**.
- Trained and tested the neural network to perform classification on the Iris dataset.

Stock Article Analyzer
github.com/kaichang1/stock-article-analyzer
- Built a website to analyze stock articles using **Python**, **Flask**, and **Bootstrap**.
- Developed using **Agile Scrum** methodology with **Asana** for task management.
- User interface guided by the principles of Cognitive Style Heuristics and prototyped with **Figma**.

Custom Shell
github.com/kaichang1/custom-shell
- Created a shell program to interpret terminal commands using **C**.

Technical Skills

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

Frameworks & Tools: Git, Flask, Bootstrap, Node.js, Express.js, React.js

Work Experience

General Dentist: LC Dental, Goh Smile Dental Care   Nov 2017 – Dec 2021
- Diagnosed and treated dental diseases. Educated and communicated findings with patients.
- Assisted in the management of offices with 5 staff members.

Dental General Practice Residency: Community Regional Medical Center   July 2016 – Jun 2017
- Performed routine and hospital dentistry in a Level 1 Trauma Center.
- Held on-call responsibilities.

Research Experience and Publications

University of the Pacific Research
- Worked on the development of novel pharmaceutical drugs against *Trichomonas vaginalis* and related strains.
- Research published in the *European Journal of Medicinal Chemistry 74:657-63* under the title "N-Propargylated isatin-Mannich mono- and bis-adducts: synthesis and preliminary analysis of in vitro activity against *Tritrichomonas foetus*."
    - **PubMed**: pubmed.ncbi.nlm.nih.gov/24561663/