Sing Wong

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EXPERIENCE

Software Engineer (contract) | Brell Health   **July2023 - Current**
- Implemented back-end and front-end of search and auto upload of medical scan from Clinic to Brell Platform.
- Developed and Managed backend Infrastructure on AWS cloud resources spanning multiple VPCs which connects to clinics' internal system for integration with the Brell platform.

Software Engineer | Eightfold AI   **Apr2022 - Feb2023**
- Worked on backend infrastructure that enables internal services that use AWS lambda to overcome runtime limit. Coded, deployed, supported, and maintained the feature as a team.
- Designed and implemented DB schema and storage model, REST APIs for a future product.
- Assisted with escalations, on-call, and build duty. Having a great understanding of the code development and deployment cycles

Software Engineer | Translucence Biosystems   **Feb2020 - Sep2020**
- Created a distributed pipeline for better use of processing power from multiple machines, up hardware utilization from <20% to over 90% for a machine learning pipeline, which later became a product (https://www.translucencebio.com/products/stitchy).

Junior Specialist (ML research) | UCI School of Medicine   **Mar2019 - Feb2020**
- Developed and trained U-net classifiers for segmenting cancer cells within a series of MRI scans for the 2019 Kidney and Kidney Tumor Segmentation Challenge.

Instructor | iD Tech   **Jun2019 - Aug2019**
- Taught students about Python and neural networks, and refreshed lecture materials.

PROJECTS

Plan It Social Website (React, Remix, JavaScript, Figma)   **May2023 - Current**
(https://github.com/social-plan-it/plan-it-social-web)
- Contributed to website design and front-end code for groups page and landing page, iterated and worked with multiple other people in an open source environment.

Identifiability Analysis with XGBoost on Plasma Weight Loss Dataset (Python, Pytorch)
(https://github.com/SasyaReddi/cse291c-plasma-weightloss)
- Shown feature importance of different DNA snippets in a dataset and analyzed the significance of parameters using various ML models, which enables better feature selection.

Med AIJam 2019 (Java, Python, Sklearn)
(https://github.com/eiffelwong1/MedAIAppJam2019)
- Developed an Android app with machine learning (decision tree model) that tracks users' health data and determines patients' risk of Cerebral Herniation.
- Awarded The Most Creative Use of AI Award

EDUCATION

University of California, San Diego   **June 2022**
Master of Science in Computer Science and Engineering   GPA 3.75
University of California, Irvine   **Dec 2019**
Bachelor of Science in Computer Science   GPA 3.7

SKILLS

Back-End: Python, PostgreSQL, C++, TensorFlow, Pytorch, FastAPI, AWS, Selenium, Pulumi, Git
Front-End: React, JavaScript, Vite, Remix, Three.js, TailwindCSS, HTML