Jennifer Jiang

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Experience

University College London / UCLH NHS Trust Sep. 2021 - Current
Senior Software Developer / Honorary Researcher *London, UK*

- Built the backend for MiADE, a research service which includes entity extraction NLP algorithms and electronic health record system (EHRs) communication APIs, leading to publication, conferences, and 3 open-source libraries.
- Deployed microservices-based AI systems into real-time clinical environments at 2 NHS Trust sites in London.
- Technical lead in securing £600,000 UKRI research project grant to optimise clinical data extraction using LLMs.

LV8 Sports Ltd. Sep 2019 – Aug 2021
Software Developer *London, UK*

- One of first 2 developers on the team to successfully launch Grow Football, a fitness iOS application which uses real-time object detection, pose estimation, computer vision, and AR technologies.
- Achieved 20% improvement in model performance by engineering custom architectures and data augmentation.
- Established end-to-end data pipeline for processing biomechanics metrics, leading to enhanced user engagement.

University College London Mar 2018 – Sep 2018
Computational Neuroscience Research Assistant *London, UK*

- Worked in DeepMind-funded research on the neural basis of spatial navigation in Prof Caswell Barry's lab.
- Modelled irregular grid cells using maximum-likelihood decoding of simulated Poisson neural spiking dynamics.

Projects

WodGPT (2024) | *Langchain, Vercel, NextJS*

- Chat with your Crossfit workout data (in progress).

Brigid - Anthropic Hackathon London (2023) | *Claude, Haystack, Langchain, Streamlit*

- Using LLMs to generate lay-term summaries of clinical trials on clinicaltrials.gov.

RSNA Intracranial Haemorrhage Detection Challenge - Kaggle Competition (2020) | *Pytorch, sklearn, Pandas*

- Built classifier to identify different types of acute ICH in CT scan images using ResNet and transfer learning.

Deep Automatic Understanding of Music Through EEG - MSc Thesis, Distinction (2019) | *Pytorch, Keras, sklearn*

- Designed and evaluated 1D and 2D CNNs (DenseNet), LSTMs, SVMs and kNNs for time-series and spectrogram representations of high-dimensional EEG signals to predict music preference from human EEG signals.

Education

Imperial College London 2018-2019
MSc Computing Science *London, UK*

University College London 2016-2017
MSc Clinical Neuroscience *London, UK*

University College London 2013-2016
BSc Human Sciences, Hons (2:1) *London, UK*

Technical Skills

Languages: Proficient - Python, C++, C, Swift / Experience in - Java, R, MATLAB
Technologies: TensorFlow, PyTorch, SpaCy, HuggingFace, Langchain, Flask, FastAPI, Docker, Nginx, Azure, Git, Streamlit, iOS SDK, React.js, Vue.js, Vercel
Concepts: Natural Language Processing, Artificial Intelligence, Machine Learning, Neural Networks, Prompt Engineering, Computer Vision, Transformers, Large Language Models, API, Agile Methodology, Microservices, Cloud Computing