

CHENYUAN QU

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WORK EXPERIENCE

Allsee Technologies Limited

Full-Stack Engineer (Machine Learning)

August 2022 – Now

Birmingham, UK

- Designed and developed a recommendation system and search engine for **Vieunite** Application that leveraged biophilic information in addition to regular metrics. The system achieved a 300% increase in click-through and purchase rates, resulting in a significant boost in revenue for the company.
- Solely completed the **Vieutopia** back-end, an AI-generated artwork platform that utilizes text-to-image and image-to-image models. Optimized and trained the models to produce high-quality, aesthetically pleasing artwork, and implemented Knowledge Distillation to make inference faster and more efficient.
- Designed the security architecture for **Vieutopia** to ensure the protection of user data and prevent unauthorized access to the platform, which has now garnered over 200,000 users as of March 2023.

University of Birmingham

Research Assistant

Feb 2023 – Now

Birmingham, UK

- Conducted research on the interpretable modelling of hydrological models using machine learning techniques to improve accuracy while clearly describing their physical processes.
- Utilized neural networks to search for more appropriate model connections to find unknown underlying patterns.
- Collaborated with a team of researchers to analyze and interpret data and to develop innovative solutions for complex problems in the field of hydrology.

Nanjing AsiaInfo Software Co.Ltd

Intern - Algorithm Engineer

July 2020 – Sep 2020

Nanjing, China

- Developed a visual customer service anchor using machine learning to synchronize mouth movements with emotions and body language, particularly in the Chinese language context, and aligned with Asian pronunciation habits.
- Optimized the customer service anchor model for mobile applications and collaborated with cross-functional teams to deploy the project in the *China Mobile* mobile app.
- Demonstrated expertise in the end-to-end machine learning process, including feature extraction, object classification, and 3D face model reconstruction to build a comprehensive training database for the model.

EDUCATION

University of Birmingham

M.S. in Artificial Intelligence and Machine Learning - Distinction (about 80%)

2021 - 2022

University of Southampton

B.S. in Physics - 2:1

2018 - 2021

Loughborough Grammar School – A Levels

Scholar of school for year 12 and year 13, British Mathematics Olympiad Gold Award in 2017 and 2018.

2016 – 2018

Warminster School – International GCSE

2015 – 2016

PAPER

Multi-view Self-supervised Disentanglement for Low-level Vision

Hao Chen, Chenyuan Qu, Yu Zhang, Jian Wang, Chen Chen, Jianbo Jiao

ICCV Under Review

Geometry-Preserving War-Torn World Synthesis from the Peace World

Chenyuan Qu, Hao Chen, Chen Chen, Jianbo Jiao

On hold