HUACHUN ZHU

EDUCATION

Fudan University   Shanghai, China

Bachelor of Science in Mathematics and Applied Mathematics   9/2014 - 7/2018

- **Dean's list** at the School of Mathematics (the "Su Buqing program").
- Symphony orchestra violinist. Intercollegiate chess player. Japan China student club president.
- **Exchange Student** at the Department of Mathematics, **Kyoto University**.   10/2016 - 8/2017

WORK EXPERIENCES

Entertainment Team, Preferred Networks   Tokyo, Japan, 9/2018 – Present

- ✧ Engineering Manager   8/2020 – Present
- ✧ Engineer   9/2018 – 8/2020

- Full-stack developer of **Crypko**, a website for AI-empowered anime character creation.
- Backend developer of **Memes**, a smartphone game adopting AI-crafted character aesthetics.
- Developed an automatic 2D character motion API for IRIAM, a character live streaming APP.
- Build deep learning infrastructure on Alibaba Cloud for production model inference with GPU.

PROJECT AND INTERNSHIP EXPERIENCES

Co-founder and Full-stack Developer, **MakeGirlsMoe** Team   Shanghai, China, 12/2017 - 7/2018

- Led the development of **Crypko β**, the **world first** blockchain application of **AI-generated NFT**.

Machine Learning Intern, **Preferred Networks**   Tokyo, Japan, 8/2017 – 9/2017

- Trained and evaluated CNNs and GANs for image generation and inpainting using Chainer.

Full-stack Developer Intern, Atmoph   Kyoto, Japan, 2/2017 - 4/2017

- Developed and released several features in Digital Window, such as smart scheduling.

Quantitative Trading Intern, Shanghai Discovering Investment Shanghai, China, 1/2016 - 9/2016

- Trained futures arbitrage models. Implemented trading algorithms and a back testing system.

SKILLS

- **3 natural languages**: **English** with professional proficiency (GRE: 332/340, TOEFL: 110/120), **Japanese** with bilingual proficiency (JLPT N1: 169/180), and **Chinese** (Native).
- **2 programming languages**: **Python** and **JavaScript**. Experience with C, Java, and Solidity.
- **Container** technologies: operating **Kubernetes** cluster with **GPU nodes**. Docker. Prometheus.
- **Fullstack** technologies: Django, Vue.js, Jupyter, MLOps, Alibaba Cloud, AWS, Redis, PostgreSQL.

PUBLICATIONS

- [WACV] Fast Nonlinear Image Unblending   2022
- [CVPR] Surrogate Gradient Field for Latent Space Manipulation   2021
- [CVPR] Fast Soft Color Segmentation   2020
- [NeurIPS Workshop] Towards the Automatic Anime Characters Creation with GANs   2017

MEDIA COVERAGES

- [Bloomberg] AI Is Rewriting the Rules of $200 Billion Games Industry (featured in video)   2023
- [Nikkei XTech] Crypko, a Deep Learning Tool to Generate Anime Characters (Japanese)   2019
- [ITmedia] Engineer's AI Challenge: Crafting Infinite Custom Characters (Japanese)   2019