Yanyuan Fu

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EDUCATION

The University of Tokyo Tokyo, Japan
M.S. in Information Science and Technology Expected 2024
Relevant Coursework: Applied Computer Graphics, Physics-based Animation, Network Optimizations, Information Compression in Computational Science, Natural Language Processing

Harbin Institute of Technology Harbin, China
Graduate Work in Electronic and Information Engineering with all 30 credits completed 2019 - 2021
Admitted through the postgraduate recommendation program (for top students)

Harbin Institute of Technology Harbin, China
B.S. in Electronic and Information Engineering, GPA: 3.63/4.0 2015 - 2019

SKILLS

Technical Skills Python, Go, JavaScript, CSS, C, Git, React, PyTorch, Node.js, Gin, Docker, GitHub, AWS
Soft Skills Strong communication skill, Quick learner, Team player, Self-motivated

PROFESSIONAL EXPERIENCE

Software Engineer, Intern Tokyo, Japan
Desoul Inc. Dec 2022 - Apr 2023

- Developed Sign-In with Ethereum authentication API using Go and Gin; Tested it with Postman and automatically builds and tests using GitHub Actions.
- Created UI for a chat app in React and Tailwind for ETHGlobal Tokyo Hackathon.
- Embracing standardized code styles and contribution workflows by enforcing linting, formatting, GitFlow based branching models, conventional commit messages.
- Experience in Go, JavaScript, React, Tailwind, Figma, Postman, Gin, Docker, Git/GitHub, GitHub Actions.

PROJECTS

Consistent 3D Stylization in sketch with NeRF Tokyo, Japan
The University of Tokyo Apr 2021 - Dec 2022

- Proposed an approach that can generate sketch novel views for a full 3D scene using a single 2D sketch drawing, based on Neural Radiance Fields (NeRF)
- Proposed a pipeline to ultilize both the consistency of NeRF and the stylization ability of Nearest Neighbor Feature Matching using an extra UNet with 2D stylization results to bridge them together.
- Improved sketch quality with less unpleasant sketch lines compared to current state-of-the-art methods.
- Experience in Python, PyTorch, AWS EC2, AWS S3, Linux, Docker, Git/GitHub.

Smart Farming Harbin, China
Harbin Institute of Technology Sept 2019 - Oct 2020

- Combined IoT and AI technologies with agriculture using one year's data from farming machines; Already applied in big agricultural regions in China, such as Heilongjiang Province, Shenyang Province.
- Analyzed and preprocessed one year's data from farming machines in multiple area; Trained neural network model to classify diseases of plant leaves using our own data.
- Made a library file for farming acreage calculation in C and applied it on the chips of the farming machine with a real-time display for monitoring cultivated acreage using GPS data.
- Experience in IoT, C, stm32/Arduino, data collection/analyze, Python, PyTorch.