Chia-Tse Kuo (Jonathan)

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Education

City University of Hong Kong (CityU), class of 2021

Bachelor of Science in Computer Science - AI & Data Science stream

 Selected courses: Artificial Intelligence, Design & Analysis of Algorithms, Problem Solving & Programming, Software Testing & Maintenance, Computational Probability Modeling.

National Tsing Hua University (NTHU), 2017-2018

Bachelor of Engineering in Mechanical Engineering

• Awardee of Industrial Innovative Competition on Industrial Design – X+Spine (2018).

Work Experience

Siemens Ltd HK, 07/2019 – 03/2020 (9 months)

Full-time Intern @ MindSphere Application Center in HKSTP

- Developed and maintained scalable software platforms for various IoT solutions including Smart Office and Smart City projects with Siemens Mindsphere IoT Operating System (DevOps).
- API integration, development, and testing for multiple IoT devices (backend).
- Designed 2D SVG layout & 3D indoor layout transformation for smart office indoor mapping.

Skills

Programming Proficient: Python | JavaScript | NodeJS (Backend) | MongoDB | Java | Linux | Restful APIs

Intermediate: C/ C++ | SQL | PHP | Docker

Language English, Mandarin

Projects

Artificial Intelligence for Classical Music composition in different eras, supervised by Dr. Chan, CityU

 Proposed 2 artificial neural network models, Bi-LSTM & CNN-GAN, to compose classical music in 4 different eras. Most generated pieces have shown valid musical structures and similar composing styles from musicians.

Boids Algorithm, supervised by Dr. Keung, CityU

• A life simulation on flocking behavior of bird programmed in Java.

Writings

Medium Writer (avg >1500 viewers/ month), 09/2020 – present

Writer for The Startup, Towards Data Science, and Analytics Vidhya

- Genetic Algorithm in Artificial Neural Network
- Artificial Intelligence at Play—Connect Four (Minimax algorithm explained)
- A survey of computer vision in fine-art classification
- Cactus image classification using convolutional neural network (CNN) that reaches 98%+ accuracy

Award