James Huang

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EDUCATION

09/2023 – 05/2027   New York University, NY   Major: Computer Science   GPA: 3.96

TECHNICAL SKILLS

- Programming Languages: Java, C++/C, Python, Assembly SQL, HTML, JavaScript, Processing
- Skills: VS debugger, gdb, lldb, gcc, g++, cl, llvm, Data Structures and Algorithms, OOP, Distributed Systems, Socket Programming, Multi-threaded programming, Machine Learning, Tensorflow, CNN, Resnet, Transformers, Database, 3D modelling, Apache2, Docker, DBeaver, VS Code, Eclipse, IntelliJ, Git/GitHubDesktop, Azure, LaTeX, etc
- Platforms: Mac-OS, Linux, Windows

HONORS & AWARDS

2023-2024   Dean's List, New York University

June 2022   First Place Team Award, American Regions Mathematics League (ARML/IRML)

April 2022   Paper Accepted by *International Conference on Artificial Intelligence and Computer Science (AICS2022): A Novel Approach For Analysis and Understanding of Video Content*

EXPERIENCE

June 2024   built james.huangs.nets.hk using Azure, ubuntu image, DNS registration, Apache2, etc

Aug 2024   built mysql databases on both linux and mac machines using docker, latest MySQL image, SQL, DBeaver; coded up java, c++, and python clients to interact with the DBs

2021-2024   Software Design Engineer Intern, AI core team, Airdoc Corp. (HK: 02251.HK)
Worked on deep learning models to predict diseases (diabetes, hypertension, glaucoma, dementia, etc) based on 3.7M patients' retinal imaging data

Fall 2023   Chief designer and implementor of two serious games:
SpaceExploration & Central Dogma of Life, using java, 3D, async programming, etc

2021-2021   Independent Researcher on Video Content Analysis
Developed an innovative model that takes a video & keywords to produce a trailer; used Resnet, Attention LSTM, audio API; published results at AICS2022

2021-2021   Independent Researcher and Designer of Smart Cane
Designed and implemented a smart cane for the blind, by detecting objects and warning with raspberry pi4B, Google CoCo model, cam, ultrasonic sensor

2021-2022   Independent Researcher on AI Model Comparison (IB EE)
Coded and compared 2 AI models (Resnet50 and ViT) using Kaggle diabetic-retinopathy-detection dataset: ViT performs better (+10% auc) with blurry data

HOBBIES

Drum, Piano, Flute, Ultimate Frisbee, Swimming, Football, Ping-pong, Basketball, Badminton, Black Myth: Wukong, NFL Madden

PERSONAL INFO -- U.S. Citizen, born in Seattle, WA