**James Huang**

917-794-5559 | [jh8867@nyu.edu](mailto:jh8867@nyu.edu) | [jameshuang2004.github.io/www/](file:///Users/billhuang/SRC/James/college_application/jameshuang2004.github.io/www) | [james.huangs.nets.hk](http://james.huangs.nets.hk)

EDUCATION

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

TECHNICAL SKILLS

* Programming Languages: Java, C++/C, Python, SQL, HTML, JavaScript, Bash, 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](https://jameshuang2004.github.io/www/img/ARML_Award_Plate_jpg.jpg), American Regions Mathematics League ([ARML/IRML](https://arml3.com/))

April 2022 Paper Accepted by[*International Conference on Artificial Intelligence and Computer Science (*AICS2022*):* *A Novel Approach For Analysis and Understanding of Video Content*](https://jameshuang2004.github.io/www/docs/paper_acceptance.pdf)

EXPERIENCE

June 2024 built [james.huangs.nets.hk](http://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.](https://www.airdoc.com/) (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](https://jameshuang2004.github.io/www/docs/SpaceExplorer.pdf) & [Central Dogma of Life](https://jameshuang2004.github.io/www/docs/DogmaGameReport.pdf), 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](https://jameshuang2004.github.io/www/docs/paper_acceptance.pdf)

2021-2021 Independent Researcher and Designer of [Smart Cane](https://jameshuang2004.github.io/www/)

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](https://jameshuang2004.github.io/www/docs/ee.pdf))

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