
James Huang

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EDUCATION

09/2023 – 05/2027 New York University, NY Major: Computer Science GPA: 3.9

TECHNICAL SKILLS

- Programming Languages: C++, C, Java, Python, Assembly, HTML, JavaScript, SQL
- 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, tmux, vi, nano, etc.
- Platforms: MacOS, Linux, Windows

HONORS & AWARDS

2023-2025	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

Summer 2025	Software Design Engineer Intern (OPE), Microsoft AI Division, Microsoft Corp. Designed and implemented PulseAI , an AI insight platform that aggregates news, products, and models, analyzes public sentiments (Huggingface, ProductHunt, YouTube), and generates business ideas from social trends (Reddit, Discord, X); partnered with Copilot Lab's social listening team on user feedback (Copilot Lab 3D)
Spring 2025	Simulated an eStore using multi-threading and C++, a virtual memory system in C
Fall 2024	Designed and implemented a simulated virtual memory system (TLB/Cache/Mem) in C
Summer 2024	Built james.huangs.nets.hk using Azure, ubuntu image, DNS registration, Apache2; Built mysql databases on linux/mac using docker, with java/c++/python clients
Fall 2023	Designed and implemented two serious games: SpaceExploration & Central Dogma of Life , using java, 3D, async programming, etc
2021-2021	Software Design Engineer Intern, AI core team, Airdoc Corp. (HK: 02251.HK) Coded and compared 2 AI models (Resnet50 and ViT) using Kaggle diabetic-retinopathy-detection dataset: ViT performs better (+10% auc) with blurry data (EE)
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

HOBBIES -- Drum, Piano, Flute, Ultimate Frisbee, Swimming, Football, Pingpong, Badminton

PERSONAL INFO -- Born in Seattle, WA; US Citizen