Yung Hin Tse

623-396-7519 | yunghint@asu.edu | linkedin.com/in/thomasyht | Eligible to work in the U.S.

Summary

Honors Computer Science undergraduate at ASU, prospective double major in Mathematics (Statistics). Analytical and self-motivated, with 4+ years of Python, Java, and C/C++ skills. Eager to apply quantitative modeling and data-driven problem-solving in a research, analysis, or software development internship.

Education

Arizona State University, Tempe, AZ Expected Grad: Dec. 2028
Honors Bachelor of Science in Computer Science *GPA: 4.00/4.00*

- Enrolled in **MITx's Mathematical Methods for Quantitative Finance** to master advanced stochastic processes, time series models, and financial mathematics using Python.

Hong Kong University of Science and Technology, Hong Kong SAR Sep. 2021 – Jan. 2022
Bachelor of Science in Engineering with Extended Major in Artificial Intelligence *GPA: 3.04/4.00*

- Awarded the JUPAS Scholarship (HK$10,000) – Fall 2021
- Received CityU HK Dean Scholarship for Hong Kong Talents (HK$30,000 per annum)

Technical Skills

Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, R, Bash
Frameworks & Libraries: Flask, Node.js, TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, SciPy, Cvxpy, HuggingFace Transformers (FinBERT)
Tools & Platforms: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Vim
Certifications: Agile Development, Data Manipulation with Python and SQL, Web Development with Frontend Tools, Quantitative Finance & Algorithmic Trading in Python

Experience

Software Engineer Intern Feb. 2025 – Present
ClearCast LLC

- Reduced mapping latency from 15 min → 0.1 ms by re-architecting Pygame/NumPy routines for SWARM control.
- Scaled simulation infrastructure to 12 agents, validating NMPC torpedo dynamics under delay buffer for US Special Forces readiness.
- Enhanced cross-functional integration of software modules, accelerating real-time decision-making in emergency responses.

STEM Private Tutor Jun. 2021 – Jan. 2022
Hong Kong Tutor Association

- Provided over 200 hours of personalized STEM tutoring to 15 students individually, boosting average test scores by 27% through tailored lesson plans and engaging projects.

Projects

IMC Prosperity 3 Trading Competition | *Python* Apr. 2025 – Apr. 2025

- Achieved Top 0.19% (Ranked 26th in the U.S. and 76th in the world among 13,614 teams)
- Developed Quant Strategy for optimal long / short position allocations adopting sentimental analysis (FinBERT) for 9 products to get expected net profit: $593440, doubling expected net profit from previous model.

Personal Scheduling App – 'Changing the World' Project | *Python* Jan. 2025 – Feb. 2025

- Collaborated with a cross-functional team to design and optimize a business model for a personal scheduling app, resulting in a 20% improvement in scheduling efficiency.
- Implemented ChatGPT API integration and analytics, reducing system response times by 35%.