Evan Tao

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Education

Relay Graduate School of Education — New York, NY
MA Adolescent Education Mathematics *GPA: 3.26* — Jul 2019 - Jun 2021

University of Pennsylvania — Philadelphia, PA
BS Computer Science *GPA: 3.44* — Sep 2014 - Jun 2018

Hong Kong University of Science and Technology — Hong Kong
Study Abroad — Jan 2018 - Jun 2018

Stuyvesant High School — New York, NY
Sep 2010 - Jun 2014

Work

Central Park East High School — New York, NY
Lead Computer Science Teacher — Sep 2019 - Present

- Founded the school's AP Computer Science A program (Java) in 2023
- AP Computer Science Female Diversity Award winner in 2019-2022 (more than 50% female exam takers)
- Achieved 81% college readiness scores in AP Computer Science Principles in 2022 (20% higher than NY average)
- Selected by Collegeboard to score end-of-year AP Computer Science projects in 2020, 2023
- Designed full-year Introduction to Python course for senior students at risk of failing to graduate
- Designed CS component of 3-week Summer Bridge program for incoming high school freshmen
- Mentored 4 students to compete at Cornell University High School Programming Competition
- Organized tech talks for 10+ students at Google, Spotify and Infor

Computer Science Projects

Fantasy Olympics Game
github.com/evantao96/Fantasy-Olympics

- Developed multiplayer fantasy Olympics game with **Python, Node.js** and **MySQL database (AWS)**
- Implemented username and password verification with **NoSQL database (DynamoDB)** and **hash encryption**
- Optimized application login time by 700ms by indexing database entries

Music Album Quiz Generator
github.com/evantao96/Music-Album-Quiz

- Developed RESTful web application where users create music quizzes using **Ruby on Rails, JSON data** and **Spotify API**
- Created **SQLite** relational database to preserve user accounts and quizzes even after the application is closed
- Used **HTML, CSS** and **Javascript** to design dynamic front-end with 6+ navigable pages

Computational Face Recognition Model
github.com/evantao96/Face-Recognition

- Implemented physiologically plausible model of face recognition with **Python 2D arrays, NumPy** and **SciPy**
- Used **SVC machine learning** to classify 400+ face image dataset with 80% accuracy

NBA Player Network
github.com/evantao96/NBA-Player-Network

- Generated network of NBA players across 2 seasons using **Java HashMaps** and **LinkedLists**
- Used **JSoup** to scrape 8 categories of player data from Basketball Reference website

Technical Skills

Languages (Proficient):	Java, Python
Languages (Prior Experience):	SQL, C, Ruby on Rails, Matlab, Go, HTML, CSS, Javascript
Tools & Frameworks:	AWS, DynamoDB, SQLite, Node.js, Vue.js, Bootstrap, Git