

# EVAN TAO

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## WORK

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### Central Park East High School

Lead Computer Science Teacher

New York, NY

Sep 2019 - Present

- Founded the school's AP Computer Science A program (**Java**) in 2023
- Designed full-year **Introduction to Python** course for junior and senior-level students
- 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 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

## TECHNICAL SKILLS

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

## PROJECTS

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### Fantasy Olympics Game

[github.com/evantao96/Fantasy-Olympics](https://github.com/evantao96/Fantasy-Olympics)

- Developed cloud-native fantasy Olympics game with **Python** and **Node.js**
- Deployed and maintained **MySQL relational database** in cloud environment **Amazon AWS**
- Implemented username and password verification with **NoSQL database (DynamoDB)** and **hash encryption**
- Used reactive **Javascript** framework **Vue.js** to build responsive single-page front-end

### Music Album Quiz Generator

[github.com/evantao96/Music-Album-Quiz](https://github.com/evantao96/Music-Album-Quiz)

- Built RESTful music application with **object-oriented Ruby on Rails** backend and **Spotify API**
- Created **SQLite relational database** to preserve user accounts even after the application is closed
- Used **HTML**, **CSS** and **Javascript** to design **web UI frontend** with 6+ navigable pages

### Computational Face Recognition Model

[github.com/evantao96/Face-Recognition](https://github.com/evantao96/Face-Recognition)

- Implemented physiologically plausible model of face recognition with **Python data structures**, **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](https://github.com/evantao96/NBA-Player-Network)

- Generated network of NBA players using **object-oriented Java data structures**
- Used **JSoup Java library** to scrape 8 categories of player data from Basketball Reference website

## EDUCATION

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### Relay Graduate School of Education

MA Adolescent Education Mathematics *GPA: 3.26*

New York, NY

Jul 2019 - Jun 2021

### University of Pennsylvania

BS Computer Science *GPA: 3.44*

Philadelphia, PA

Sep 2014 - Jun 2018

### Stuyvesant High School

New York, NY

Sep 2010 - Jun 2014