Evan Tao

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Software developer and educator with expertise in back-end infrastructure, cloud applications and databases.

Work

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

- Founded the school's AP Computer Science A program (**Java**)
- Designed **Javascript**-based AP Computer Science Principles lessons to 80+ students every year
- Developed **Python** elective course from basic programming to advanced data structures
- Achieved 81% college readiness scores in AP Computer Science Principles in 2022 (20% higher than NY average)
- AP Computer Science Female Diversity Award winner in 2019-2022 (more than 50% female exam takers)
- 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 offices

Education

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

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

Technical Skills

Languages (Proficient):	Java, Python, Ruby on Rails, SQL
Languages (Prior Experience):	HTML, CSS, Javascript
Tools & Frameworks:	Amazon AWS, PostgreSQL, NoSQL, Node.js, RESTful APIs, Heroku, Git

Projects

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

- Developed multiplayer fantasy Olympics game with **Python** and **Node.js**
- Created **MySQL relational database** to store 20,000 Olympic athlete entries
- Implemented username and password verification with **NoSQL database (DynamoDB)**
- Deployed application to cloud environment using **Amazon AWS RDS** and **Elastic Beanstalk**

Spotify Quiz Generator
music-album-quiz.onrender.com/

- Built fully-functional RESTful quiz application with **Ruby on Rails** back-end and Spotify API
- Created **PostgreSQL relational database** to preserve user accounts even after the application is closed
- Deployed application in production mode to cloud service Render.com

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

- Implemented physiologically plausible model of face recognition with **Python, 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 using **object-oriented programming** in **Java**
- Used **JSoup library** to web scrape 8 categories of player data from Basketball Reference website