

EVAN TAO

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EDUCATION

University of Pennsylvania

Bachelor of Science in Computer Science

Awards: Dean's List 2015-2016

Philadelphia, PA

Sep 2014 - Jun 2018

SKILLS

Languages Java, Python, Ruby on Rails, SQL, Golang, Javascript

Databases MySQL, PostgreSQL, NoSQL

Tools Express.js, Vue.js, AWS, RSpec, Docker, Git

PROJECTS

Fantasy Olympics Platform · Live View · GitHub

Express.js, Vue.js, Python, MySQL, AWS RDS

- Built a full-stack CRUD application featuring an Express.js back-end and responsive Vue.js front-end
- Developed a web scraper in Python to automate the extraction and cleaning of data from 3 websites
- Queried a MySQL database of more than 20,000 entries hosted on a cloud-native AWS RDS instance
- Implemented high scores and password authentication using a NoSQL AWS DynamoDB instance

Spotify Quiz Generator · Live View · GitHub

Ruby on Rails, PostgreSQL, AWS S3, Docker, RSpec

- Built a RESTful application featuring a Ruby on Rails back-end and Spotify API integration
- Utilized a relational PostgreSQL database to reduce load times by 60% while retrieving album data
- Implemented user profile picture uploads with AWS S3 cloud storage
- Deployed the application and database into orchestrated containers using Docker Compose
- Wrote more than 50 comprehensive unit and integration tests with the RSpec framework

WORK EXPERIENCE

Lead Computer Science Teacher

New York City Department of Education

New York, NY

Sep 2019 - Present

- Founded and established the school's first college-level Java course
- Developed a Python elective course that covers topics in advanced algorithms and data structures
- Designed a Javascript course for novice programmers, culminating in a 10-hour capstone project
- Launched the computer science component of a 3-week summer program for incoming students
- Achieved an 81% student college readiness rate in 2022, exceeding the NY average by 20%
- Received the AP Computer Science Female Diversity Award for recruiting over 50% female students
- Coached students at the Cornell University High School Programming Competition in 2022 and 2023
- Evaluated student computer science project submissions as part of a nationwide cohort for 3 years

Open Source Software Developer

Independent Research

New York, NY

Jul 2018 - Sep 2019

- Implemented a biologically plausible neural network in Python, based on open-source research
- Engineered a novel layer of computational processing to handle images with faces in varying positions
- Utilized SVC machine learning to classify over 1,000 distinct faces, achieving an 80% accuracy rate