Evan Tao

(929) 519-3390 · evantao96@gmail.com · linkedin.com/in/evantao96

Full-Stack Developer and Educator, Transitioning to a Career in Software Engineering

Education

University of Pennsylvania   Philadelphia, PA
Bachelor of Science in Computer Science   Sep 2014 - Jun 2018
Awards: Dean's List 2015-2016

Skills

Languages	Java, Python, Ruby on Rails, SQL, Golang, Javascript, CSS
Databases	MySQL, PostgreSQL, NoSQL DynamoDB, Amazon AWS
Tools	Express.js, Vue.js, JSON, RSpec, Docker, Git

Projects

Fantasy Olympics Platform · Live View · GitHub

Express.js, Vue.js, Python, MySQL, NoSQL DynamoDB, Amazon AWS

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

Spotify Quiz Generator · Live View · GitHub

Ruby on Rails, PostgreSQL, RSpec, Docker

- Built a RESTful music application featuring a Ruby on Rails back-end and Spotify API integration
- Connected a relational PostgreSQL database with 4 different tables to persist user and album data
- Wrote more than 50 comprehensive unit and integration tests with the RSpec framework
- Deployed the application and database together in a single configuration file using Docker Compose

Work Experience

Lead Computer Science Teacher   New York, NY
New York City Department of Education   Sep 2019 - Present

- Founded and established the school's first college-level Java course
- Developed a Python elective course which 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% exam college readiness rate in 2022, exceeding the NY average by 20%
- Awarded the AP Computer Science Female Diversity Award for female participation for 5 years
- Evaluated end-of-year AP Computer Science projects as part of a selective cohort for 3 years
- Coached students at the Cornell University High School Programming Competition for 2 years

Software Developer   New York, NY
Independent Study   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
- Serialized the training model with Pickle to reduce processing times for future predictions