

GENE PARK

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EDUCATION

New York University, Bachelor of Arts in Mathematics and Computer Science, Minor in Economics, New York, NY
Anticipated December 2024

Relevant Coursework: Numerical Computing, Algorithms, Operating Systems, Computer Systems Organizations, Data Structures, Analysis, Abstract Algebra, Complex Analysis, Differential Geometry, Discrete Mathematics, Statistics, Linear Algebra, Calculus III, II, I, Web Design

EXPERIENCE

(Current) Freelance Full Stack Developer - Healthcare Database Migration | NOW PAIN CLINIC Current

- ❖ Clean, update, and migrate patient databases from outdated MS Access and Excel files to SQL utilizing SQL, Flask, MS Access, and Python, lowering search and update time by 99.6% and 93% respectively, on average
- ❖ Construct and stylize a user-friendly locally-hosted website for receptionists to update, add, and edit patient information and book appointments utilizing Flask, Python, CSS, HTML, and JS
- ❖ Connect front-end interface to back-end SQL utilizing Psycopg in Python

Administrative Intern | Prime Academy, Tenaflly, NJ

May 2023 ~ August 2023

- ❖ Uploaded and managed scheduling and financial information using Office
- ❖ Developed Python script to grade student's practice exams by importing CSV files from digitized problem sets then converting raw data into a data structure for comparison and manipulation using Python AI Library

SAT Math and English Teacher | Prime Academy, Tenaflly, NJ

June 2021 ~ Dec 2023

- ❖ Developed lesson plans and curriculum and taught multiple classes (individual, pairs, and groups of 4)
- ❖ Tracked progress of students using biweekly benchmarks and individual consultations
- ❖ Improved students' scores, on average, by 213 points by providing individualized supplemental lessons

PROJECTS

Cryptocurrency Trading Bot

September 2023 ~ Current

- ❖ Researched various trading algorithms for different cryptocurrencies, focusing on low-risk high volume trading patterns combining mean-inversion and pair trading strategies utilizing YahooFinance in PythonBuilt algorithms to quickly backtest high volumes of data quickly

Personal Website

January 2024

- ❖ Built and styled a creative and organized website that showcased strengths as both a mathematician and computer scientist
- ❖ Utilized JavaScript to enhance user experience, and HTML, CSS (SCSS) to optimize website visuals

Statistical Modeling of Bonds with Quantitative Analyst at Wells Fargo

September 2018 ~ June 2019

- ❖ Collaborated with a Quantitative Analyst to implement the Hull-White Model to test differing mean parameters on bond yield
- ❖ Calculated differing effects on increases to profit through running hundreds of thousands of regressions using a Monte Carlo simulation of the Hull-White Model

SKILLS

Programming Languages: Python, Java, SQL, C, C++, JS, HTML, CSS, R

Technical: Microsoft Office Suite, Git, Flask, Angular, Node, PostgreSQL

Passed Actuarial Science Exams: Probability

Languages: Korean (Fluent)

LEADERSHIP

Encounter Christian Fellowship, New York, NY

September 2022 ~ Current

President (2023-2024), Treasurer (2022-2023), Small Group Leader, Praise Team, Large Group Committee Member

- ❖ Led weekly discussion groups of 10 students to foster a connected college community; planned with co-leaders to communicate vision and evaluate group dynamic for improvement
- ❖ Documented financial spendings of the club and coordinated with NYU to provide funding
- ❖ Coordinated with staff and other leaders to provide the college students with a sense of community

VOLUNTEERISM

Vine Math Tutor, The Remnant Church New York, NY

2022 ~ 2023