

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, Basic Algorithms, Data Structures, Operating Systems, Computer Systems Organizations, Analysis, Abstract Algebra, Complex Analysis, Theory of Probability, Differential Geometry, Discrete Mathematics, Statistics, Linear Algebra, Calculus III, Calculus II, Web Design

SKILLS

Programming: C, Python, Java, JavaScript, HTML, CSS, R, Angular, MongoDB, Node.js, Express, C++

Technical: VSCode, Eclipse, Microsoft Office Suite, Git

Actuarial Science: Probability Exam

Languages: English, Korean

EXPERIENCE

Administrative Intern | Prime Academy, Tenaflly, NJ May 2023 ~ August 2023

- ❖ Uploaded and managed scheduling and financial information using Office
- ❖ Created Python script to grade student's 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 ~ Current

- ❖ Created 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

High School Math Tutor | Prime Academy September 2020 ~ Current

- ❖ Met with students weekly to discuss new class material and to help prepare for upcoming exams and homework
- ❖ Prepared students by teaching them class material in a personalized manner
- ❖ Improved students' scores, on average, a letter grade by creating personalized lesson plans for each student

PROJECTS

Using Data Structures to Sort Chapters and Verses by Emotions in Bible December 2022 ~ January 2023

- ❖ Collaborated with a partner to write a Python script that takes in a JSON file of the Bible and sorts chapters and verses by emotion into different Red-Black trees and Doubly-Linked Lists respectively
- ❖ Chapters and verses were indexed using an algorithm that utilized word count of specific emotions

Cryptocurrency Trading Research Project May 2022 ~ August 2022

- ❖ Collaborated with partners to create a paper on translating popular stock trading strategies into crypto trading strategies
- ❖ Focused on high-volume low margin trades when applied to mean-reversion and momentum-based strategies

Statistical Modeling of Bonds with Quantitative Analyst at Wells Fargo September 2018 ~ June 2019

- ❖ Collaborated with a Quantitative Analyst from Wells Fargo in order to use the Hull-White Model to see the effects of differing mean parameters on bond yield while using a given expression
- ❖ The differing effects were calculated through running hundreds of thousands of regressions using a Monte Carlo simulation of said model

LEADERSHIP

Encounter Christian Fellowship, New York, NY September 2022 ~ Current

President, Treasurer, 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 in order to provide funding
- ❖ Organized logistics of weekly large group meetings to advocate for and represent student interests
- ❖ Coordinated with staff and other leaders to provide the college students with a sense of community

VOLUNTEERISM

The Remnant Church, Vine Tutor, New York, NY 2022 ~ 2023

- ❖ Gave weekly one on one tutoring for underprivileged middle school students in subjects of English and Math to help them get accepted into top schools in NYC