George W Nakhla

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EDUCATION

Rutgers, The State University of New Jersey　　　　　**Expected Graduation: May 2026**
B.S. in Computer Science, B.A in Mathematics and Statistics　　　　　*GPA: 3.7*
Activities: Rutgers Road to Wall Street Cohort 13, Quantitative Finance Club, Weightlifting Club

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, Angular, R, C, React, HTML, CSS, MySQL
Developer Tools: Git, NumPy, Pandas, Firebase, Chart.js, Excel, UML Design
Certifications: Wall Street Prep Accounting, Wall Street Prep Financial Modeling, Wall Street Prep Excel

EXPERIENCE

Software Engineer Intern　　　　　**June 2024 - August 2024**
Morgan Stanley　　　　　*New York, NY*
- Redesigned client-facing **TypeScript** API service for the **daily** onboarding of **300+** new accounts
- Deployed Angular components to **Kubernetes** to ensure reusability for internal and external users
- Created a full-stack tool to retrieve and batch type-check client generated JSON files via RegEx

Software Engineer Intern　　　　　**May 2023 – August 2023**
Aresty Research　　　　　*New Brunswick, NJ*
- Programmed Monte Carlo methods in Python to compute optimal ceilings for **20,000+** portfolios
- Developed **2** full-stack web applications using Angular to enable the collection of **2,000** data points
- Optimized and refactored code, leading to a **15% reduction** in Monte Carlo method runtime

Web Data Analyst　　　　　**September 2021 – May 2023**
Upforce Marketing
- Provided **10+ clients** search engine optimization services, resulting in a **400%** increase in traffic
- Conducted weekly meetings to track client progress and implement revisions across **4 platforms**
- Designed and executed A/B tests using Google Analytics, improving conversion rates by **15%**
- Redesigned the user interface and experience of 4 client websites, reducing bounce rates by **30%**

Software Engineer Intern　　　　　**June 2022 – August 2022**
Grip Tight Tools　　　　　*Union, NJ*
- Identified and resolved database performance bottlenecks, enhancing query speeds by **15%**
- Refined the reordering process for **20,000** orders by integrating Python, MySQL, and QuickBooks
- Utilized Tableau to gather, format, and visualize relevant data of **7** product line competitors
- Introduced **2** Python scripts to simplify data analysis of sales and disputes across **2,000** customers

PROJECTS

Pairs Trading Portfolio | *Python, Sci-Kit Learn, Git*
- Constructed a long-short equity portfolio using a novel pairs-trading algorithm, leveraging unsupervised machine learning for biweekly rebalancing and stock selection, generating a **7%** return

The Prosperity Index | *Python, Sci-Kit Learn, Pandas, Git*
- Engineered a 2D unsupervised k-means clustering machine learning algorithm with a proprietary prosperity index to successfully identify **3** target locations for a non-profit's philanthropic expansion

One Shot Learning | *C, Python, Git*
- Employed One-Shot Machine Learning to accurately predict housing prices with **93%** accuracy
- Leveraged a Python script to quickly ingest, format and test **100,000+** FHFA JSON data points

AudioMac | *React, JavaScript, Firebase, Chart.js, Git*
- Launched a full-stack app offering verbal mental math training to simulate trading interviews
- Implemented login and data visualization features, resulting in an increase of scores by **20%**