

Matthew Oyales

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Education	Stevens Institute of Technology - Hoboken, NJ Bachelor of Science, Major in Computer Science, Minor in Quantitative Finance GPA: 3.791/4.0	Expected May 2024
	Coursework: Data Structures, Algorithms, Web Programming, Systems Programming, Machine Learning, Computer Architecture, Operating Systems, Statistics, Linear Algebra, Agile Methodologies, Database Management, Concurrent Programming, Project Management, Accounting, Corporate Finance, Investment Practicum, Derivatives	
Skills	Languages: Python, C/C++, Java, C#, JavaScript, HTML, CSS, PHP, SQL, R, Bash, Swift, Kotlin	
	Software: Git, Jira, Android Studio, Jupyter Notebook, Node.js, React.js, Eclipse, Photoshop, Oracle Database, Premiere Pro, Unity, Godot, Draw.io, Postman, Firebase, pgAdmin, Tableau, Office 365 Suite, Visual Studio Code, XCode, Vim, MongoDB, Gitlab, Arduino IDE, R Studio	
	Operating Systems: Windows, MacOS, Linux (Ubuntu, Arch, Debian)	
Work Experience	Bank of America – Jersey City, NJ Software Engineer Intern – Global Technology Program	June 2023 – Aug. 2023
	<ul style="list-style-type: none">Investigated machine learning-driven insights for the performance of core databasesReviewed the process for integrating native ML tools for database catalogue	
	G3 Technologies, Inc. – New Providence, NJ Software Engineering Co-op	Jan. 2023 – May 2023
	<ul style="list-style-type: none">Designed new features for Android products that deal with different cellular technologiesConstructed cellular technology-based Android applications for in-house and client usage	
	SRI International – Princeton, NJ Software Engineering	May 2022 – Dec. 2022
	<ul style="list-style-type: none">Researched solutions for lightweight audio processing and transmissionBuilt programs that test the limitations of selected audio codecsPresented designs for spatial audio/video systems to be used by thousands of DoD clients	
	Stevens Institute of Technology – Hoboken, NJ Course Assistant, CS 382, 392, 515, and 570	Jan. 2022 – Present
	<ul style="list-style-type: none">Assisting the professor by facilitating regular office hours and grading assignmentsTutoring over 100 students in the subjects of shell scripting, CLI, C programming, and moreLeading 7 other Course Assistants in developing comprehensive, clear review material	
	Virtu Financial – New York, NY IT Ondesk Engineer	Sept. 2021 – Dec. 2021
	<ul style="list-style-type: none">Delivered remote and on-site support to 400+ end users afflicted with technological issuesManaged a small group of 10 IT co-workers to handle infrastructure upgrades and migrationsDeveloped scripting for about 40% more efficient workflows in daily online tasks	
	iD Tech – Hoboken, NJ (Remote) Virtual Tech Camp Instructor	June 2021 – Aug. 2021
	<ul style="list-style-type: none">Imparted knowledge of programming principles and development in Java, Python, and C++Guided small groups of about 6 students per class through interactive coding projectsInspired 100+ young kids and teenagers to pursue programming by highlighting their potential	
Leadership & Other Experience	Numerix – New York, NY (Remote) Software Quality Assurance Analyst	Jan. 2021 – May 2021
	<ul style="list-style-type: none">Inspected financial analysis software to assess design, functionality, and flaws in the projectsDrafted hundreds thorough reports of testing discrepancies and bugs for developer teamsImproved processes by 25% for accurately detailing and reporting software issues	
	Stevens Student Managed Investment Fund (SSMIF) Quant Team, Factor Model Analyst	Sept. 2022 – May 2023
	<ul style="list-style-type: none">Leveraged machine learning algorithms in a factor model to predict returns by sectorGuided equity-side analysts in determining what sectors to allocate the fund's \$600k of capitalContributed a technological edge on trading strategy such that the fund can beat the S&P 500LSTM neural network for analyzing stock data and predicting future prices made in Python	
	Alpha Phi Omega Service Fraternity Brother and Executive Board Member (Webmaster, New Member Educator, Fundraising Chair)	Aug. 2019 - Present
	<ul style="list-style-type: none">Directing the program for a diverse group of students who wish to be involved with APOServing the campus and local community through a variety of volunteer opportunities, such as music festival staff, homeless shelter cooking, thrift shop work, and tutoringCoordinating efforts to ensure brothers uphold the cardinal principles of leadership, friendship, and service	
	FIRST Robotics Student Team Member (FRC Team 11), Volunteer, and Team Mentor (FRC Team 9015)	Sept. 2016 – Present
	<ul style="list-style-type: none">Designed and constructed the electrical system for the competition season robotsServed as a judge for First Tech Challenge (FTC) events throughout the state of New JerseyFurthered youth interest in STEM activities through various community events	
	Projects	
	<ul style="list-style-type: none">CyclSafe - Bike route safety visualization tool using JavaScript, Handlebars, and the Google Maps APISaturday Morning Grooving - VR/3D music visualization game using the Godot Game EngineApota.org - Migration of fraternity website from an old PHP/SQL stack to one in React.js/FirebaseBlog posting site written with Python/Django (alternate version in React.js and Firebase)Cheap 'n Ease - Budgeting and financial planning web application with LAMP technology stackMemorize - Card-matching memorization game built in XCode with the Swift programming language	
	Activities	
	Clubs: Concert Band, Jazz Ensemble, Saxophone Ensemble, SLUG, Computer Science Club, Game Dev, Poker Club	
	Hobbies: Instrumental music, drawing, studying programming languages, web development, cycling, photo/video editing, culinary arts, music composition, scripting/automation, poker	