

Nobel Manaye

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EDUCATION

Washington and Lee University | Lexington, VA

B.S. in Computer Science | GPA: 3.4/4.0

May 2023

Relevant Courses: Software Development(Java), Data Structures(Python), Algorithms,Mathematical Foundations of Data Science(Statistics in R), Probability (Combinatorics, Distributions, Random Functions) ,Introduction to Machine Learning

IBM AI Developer Certificate: Prompt Engineering, Feature Engineering, Large Language models

TECHNICAL SKILLS

- **Front-End:** HTML5, CSS3, JavaScript, TypeScript, React, RESTful APIs, JSON, Version Control (Git)
- **Back-End:** Python, Java, R, MATLAB, C, SQL, CI/CD, Debugging, Machine Learning
- **Personal Skills/Tools:** Selenium WebDriver, Machine Learning , Distributed Systems, Amazon Web Services(AWS) , Agile Methodologies, SDLC (Software Development Life cycle) , Microsoft Word, Microsoft Outlook, Microsoft PowerPoint, AutoCAD

RELEVANT EXPERIENCE

LEAD Computer Science Teacher| Success Academy | New York, NY

July 2023 - July 2024

- Instructed over 100 students in Python Fundamentals and AP Computer Science. Used Microsoft Excel to log and troubleshoot content retention gaps, while developing an innovative visual curriculum to achieve mastery.
- Engaged in regular phone calls with parents to collaboratively refine strategies for student success. Applied an analytical, data-driven approach to assisting struggling students, resulting in a 92% pass rate.

Software Engineer Intern | FreeWill | New York, NY (Remote)

May 2022 - August 2022

- Investigated front-end issues, resolving errors on four pages and resolving 14 tickets using React, Typescript, and HTML/CSS, resulting in a robust web framework.
- Collaborated with the engineering manager and team during scrum meetings to revamp three directories of the admin website in ReTool for streamlined RESTful API services. This improved efficient access to SQL database infrastructure to manage clients' legal information.

Science Laboratory Assistant| Washington and Lee Uni. | Lexington, VA

January 2022 - November 2022

- Dedicated over 300 hours as an assistant, helping students utilize 3D printing technology (with AutoCAD) for Engineering projects upon request.
- Trained in the operation of a Wood LaserJet cutter in conjunction with Autodesk inventor.

PROJECTS

AI Voice Assistant

- Developed a web application featuring an AI voice assistant chatbot that leverages IBM's Watson AI LLM, providing natural language understanding and speech capabilities.
- Implemented the chatbot using Flask for the backend and created a web app with HTML and CSS for UI design, and JavaScript for seamless user interaction.

Highland Defense

- Developed an object-oriented real-time strategy game featuring human vs. AI gameplay. Devised a uniquely optimized A* algorithm to manage hundreds of characters (spanning 20 categories) without lag.
- Performed detailed calculations for game physics, including mechanics, efficient collision detection, and predictive pathing, to equip the AI with a strategic mindset for attacking human players. Reviewed and remedied bugs through peer commentary and investigative analysis of edge cases, ensuring robust and reliable system performance