

Vaibhav Sonnakul
US Citizen | (703) 991-9444 | vksonnakul@gmail.com
[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Education:

George Mason University Honors College	GPA: 3.8	August 2022 – Expected June 2025
Bachelor's in Applied Computer Science with a Concentration in Software Engineering		
Relevant Coursework: Software Engineering, Data Structures and Algorithms, Object Oriented Programming, Database Concepts		
Patriot High School		August 2018 - June 2022
Advanced Studies Diploma – AP Scholar		
Governor's School at Innovation Park		August 2020 - June 2022
Accelerated Dual Enrollment STEM Program in collaboration with George Mason University		

Technical Skills:

Languages: Python, Java, JavaScript, Typescript, CSS, HTML, C, SQL, R
Design/Programming Concepts: Object Oriented Programming, Data Structures and Algorithms, Low Level Programming (Linux/Unix CLI), Agile, Docker, CI/CD
Tools/Frameworks: React, Next.js, Git/GitHub, MongoDB, Node.js, Express, PostgreSQL, Visual Studio Code, Postman, Microsoft Office (Word, Excel, PowerPoint, Outlook, Teams), IntelliJ, Autodesk, RStudio

Experience:

Undergraduate Teaching Assistant	August 2023 – Present
<ul style="list-style-type: none">Facilitated the learning journey of over 400+ students enrolled in CS 112: Introduction to Programming by providing personalized support, clarifying programming fundamentals, and guiding Python implementation through lab and project assignments.Managed class discussion boards, addressing inquiries regarding course topics and logistics promptly, fostering an engaging learning environment for a large and diverse student body.	
Cognizant: Generative AI Externship - Extern	June 2024 – August 2024
<ul style="list-style-type: none">Developed technical skills in Python for AI & Generative AI through a self-paced virtual program. Learning to create innovative AI-driven applications through foundational training in Python programming and introductions to Gen AI.Earned certificates in Python and Generative AI upon completion.Learned to use tools like PyTorch and Hugging Face to customize pre-trained models for specific use cases.	
AT&T: Technology Academy - Extern	July 2023 – August 2023
<ul style="list-style-type: none">Gained experience with a variety of technologies, including cloud computing, big data, and cybersecurity.	
AT&T: Summer Learning Academy Externship - Extern	June 2021 – August 2021
<ul style="list-style-type: none">Enhanced personal development skills such as interviewing, branding, and networking through fast-paced online learning.Gained insights, advice, and enhanced skills on business, leadership, and career from business executives and recognized experts.	

Projects:

PumpUp AI Exercise Tracker (Source) Next.js, OpenAI, MongoDB, Pinecone Vector DB	June 2024
<ul style="list-style-type: none">Designed and implemented a responsive, user-centric interface for PumpUp, an innovative AI-powered workout tracker, using Next.js inspired by my first react project a MERN Stack Exercise Tracker.Developed robust APIs to manage exercise data and AI interactions and MongoDB for optimized data storage and scalability.Integrated Pinecone with the OpenAI API to deliver precise AI responses, including detailed exercise information, progress tracking, personalized feedback, and nutrition advice based on the user's workout routine and tracked exercises.	
NBA PPG Prediction Model (Source) Next.js, Flask, Scikit-Learn	March 2024
<ul style="list-style-type: none">Created a prediction model to predict a player's points per game (PPG) stat for the upcoming 2024-2025 season based on their PPG from the past 3 seasons (2022-2022, 2022-2023, 2023-2024).Used a Linear Regression model using scikit-learn to combine a player's data from all three seasons to help predict their PPG in the upcoming 2024-2025 season.Utilized Flask to connect backend model with a responsive Next.js frontend.	
Next.js Weather App Project (Source) Next.js, React, Weather APIs	February 2024
<ul style="list-style-type: none">Developed interactive Weather Application website using Next.js and Tailwind, ensuring a visually appealing user interface.Integrated Open Weather API and Open Meteo API to provide comprehensive and accurate weather information to users.Implemented server-side rendering (SSR) with Next.js for optimized performance and swift data delivery, deploying the application on Vercel for global accessibility and streamlined deployment management.	

Activities and Interests:

CS Club - Member	August 2023 – Present
<ul style="list-style-type: none">Attend professional development and networking events.	