

# Vaibhav Sonnakul

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## 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

GPA: 4.4

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

## Skills:

**Languages:** Python, Java, JavaScript, Typescript, CSS, HTML, C, R, Tailwind CSS, SQL(Oracle), Node.js

**Design/Programming Concepts:** Object Oriented Programming, Data Structures and Algorithms, Low Level Programming (Linux/Unix CLI), Agile

**Tools/Frameworks:** React, Next.js, Git/GitHub, MongoDB, Express, Visual Studio Code, Microsoft Office (Word, Excel, PowerPoint, Outlook, Teams), IntelliJ, Autodesk (AutoCAD, Inventor, Fusion360), RStudio

## Experience:

### Undergraduate Teaching Assistant – In Person

August 2023 – Present

- 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.

### AT&T: Technology Academy - Remote

July 2023 – August 2023

- Completed a week-long program that provided me with skills and knowledge to pursue my career in technology.
- Gained experience with a variety of technologies, including cloud computing, big data, and cybersecurity.

### AT&T: Summer Learning Academy Externship - Remote

June 2021 – August 2021

- Completed 80 hours of professional and personal development from renowned speakers.
- 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. Attended regularly scheduled online webinars and video conferences with speakers detailing their experiences throughout the information technology industry.

### TCS iON: Career Edge – Young Professional – Remote

July 2021 – August 2021

- 15-day career preparation course teaching employability skills for future jobs, developing soft skills needed in the work industry like communication, interviewing, and presentation.
- Expanded knowledge on IT foundational skills, Artificial Intelligence, and accounting.

## Projects:

### Exercise Tracker MERN Stack Project ([Source](#))

January 2024

- Developed and deployed a web application for users to track and manage their workout routines, providing a user-friendly interface and robust data management features.
- Integrated JSON Web Tokens for user authentication and authorization, guaranteeing data security.

### Next.js Weather App Project ([Source](#))

February 2024

- 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.

### Bioplastic Production from Food Waste

August 2020 – June 2021

- Synthesized and tested bioplastics made from homemade extracted potato and banana starch from potato skins and banana peels. Concluded that Banana Starch Bioplastics have the greatest strength.
- Developed research and organizational skills by collaborating with a team of two other student researchers.

## Activities and Interests:

### CS Club - Member

August 2023 – Present

- Attend professional development and networking events.