

# Suyash Mothukuri

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## Education

### Virginia Tech

B.S, Computer Science – Dec '26 (GPA: 3.75)

**Coursework:** Foundations of Engineering, Software Design/Data Structures, Computer organization, CS - Intro to problem solving, Intro to AI, Intermediate Software Design, Computer Organization 2, Computer Systems, Data/Algorithm Analysis, Professionalism in Computing, Data Structures/Algorithms, Discrete Math, Applied Combinatorics, Linear Algebra

## Experience

### TrendSavvy | Summer Project May 2025 – August 2025

- Designed and launched an e-commerce store that curated and sold fashion-forward lifestyle products, focusing on creating a seamless shopping experience for trend-conscious customers. Developed engaging, responsive front-end interfaces using HTML, CSS, JavaScript, and React, with attention to intuitive navigation, modern layouts, and optimized product presentation.
- Strengthened technical expertise by implementing interactive components troubleshooting design-to-code workflows, which deepened my understanding of real-world frontend development.
- Gained insight into both the technical and business sides of e-commerce—balancing design decisions with user experience, branding, and customer engagement goals.

### Red Hibbert Group | Summer Intern Jun 2024 - Aug 2024

- Collaborated effectively within a cross-functional team to modernize websites, emphasizing usability, performance, and adherence to industry standards while showcasing strong problem-solving skills.
- Redesigned and implemented website updates using Webflow, React, and HTML, demonstrating adaptability and precision in applying modern front-end development practices.
- Deployed updated websites in an agile environment, ensuring high-quality results and a commitment to excellence in technology delivery.

### InspiritaI | Summer Intern Jun 2022 - Aug 2022

- Worked alongside a Stanford Ph.D. lead data scientist to develop object detection models for self-driving cars, underscoring teamwork and a high-energy approach to solving technical challenges.
- Implemented neural network and convolutional neural network models to focus on accuracy testing, reflecting an ability to manage complex algorithmic projects.
- Applied efficient techniques like the sliding window algorithm and bounding box prediction to process video streams within a distributed computing workflow.
- Demonstrated technical proficiency in designing and coding large-scale systems, aligning with fundamental tools development practices.

## Relevant Academic Projects

### Virginia Tech | HokiePokie Dec 2024

Collaborated in a group of 4 to build a web app using React that recommends courses to help track overall academic progress given their transcript.

### Virginia Tech | Diggeridoos May 2024

Worked in a team to enhance a previous design for a drill to significantly reduce this cost per mile while increasing the speed and efficiency of tunnel construction and programmed the entire console for the drill using React.

### Tesla STEM | Advanced Projects in Java Jan 2023

Programmed in a group of five, a video game that represents a more farming version of Mario kart. Developed in Rust generative art code API for children so that they can understand the basics of coding through creation of recursive shapes.

### CSRSEF | Machine Learning to predict cloud precipitation Jan 2021

Developed a convolutional machine-learning model for predicting precipitation levels in clouds using satellite images under the guidance of UW professor, Dr. Dale Durran. Tested the model against multiple data samples and fine-tuned to achieve 94% accuracy.

### CodeDOJO | Advanced AI application development Sep 2020

Learned basics of artificial intelligence and machine learning models like linear regression, logistic regression, neural networks, and convolutional neural network models. Contributed to a python program using a CNN model for recognizing handwritten numbers.

## Skills

**Programming Languages:** Python, Rust, JavaScript, Java, C++, C#, SQL, HTML, TypeScript, Go, Swift, R, CSS

**Tools & Platforms:** Webflow, Adobe InDesign, Illustrator, Python Notebooks, TensorFlow, JGrasp, VS Code, GitHub, GenAI, Test Generation Tools, QuickCheck, Hypothesis, React, .NET, WPF

**Knowledge & Concepts:** Object-Oriented Design, Automated Reasoning, Compilers, Type Checkers, Code Analysis, Property-Based Testing, Linux/Bash Scripting

**Soft Skills:** Quick Learner, Strong Communication, Problem Solving, Persistence

## Awards/Certifications

- Generative AI with Large Language Models:** Amazon/AWS, July'24
- Data Science Professional Certificate:** HarvardX, May'24
- Professional Certification in Python Programming:** Georgia Tech, Aug'22
- Certificate at Joy of Coding Bootcamp:** UMich, July'22