# Suyash M

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## Education

**Virginia Tech**
*B.S, Computer Science* (GPA: 3.75)
- **Coursework:** Foundations of Engineering, Software Design/Data Structures, Computer organization, CS - Intro to problem solving

## Experience

**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** | *HookPoke*                                                      **Sep 2024 - 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** | *Diggeroos*
- 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.
- Programmed in Rust a generative art code API for children so that they can understand the basics of coding through creation of recursive shapes.

**CS §EF** | *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.
- Worked on a python program using a CNN model for recognizing handwritten numbers.

## Skills

- **Programming Languages**: Python, Rust, Javascript, Java, C++, C#, OCaml, Haskell, SQL, HTML, Typescript, Go, Swift, R
- **Software Development**: NET, WPF, Tools Development, Linux
- **Tools & Platforms**: Webflow, AdobeInDesign, Illustrator, pychoy notebooks, Tensor flow, jGrasp, VS code, Github, GenAI, Test generation tools, QuickCheck, Hypothesis
- **Soft Skills**: Quick learner, Strong communication, problem solving
- **Knowledge & Concepts**: Object-oriented design, Automated Reasoning, Compilers, Type checkers, Code analysis tools, Property-based testing, Linux / Bash Scripting

## Awards/Certifications

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