Vihan Anand

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Education

Freedom High School, South Riding, VA Grade 11

GPA 4.51 weighted | 4.14 unweighted

Current coursework

- DE Physics
- AP Calculus AB
- AP Computer Science Applications
- Spanish V Honors
- AP English Language & Composition
- AP U.S. History
- AP Microeconomics & Macroeconomics

Completed coursework: AP Precalculus, AP Computer Science Principles, Research Chemistry

Research Experience

George Mason University | AI Data Center Research Intern June to August 2026

- Co-authored *How AI Data Centers Work: Architecture, Communication, Telemetry, and Security*, a book manuscript with Massieh Kordi Boroujeny.
- Prepared diagrams and presentations showing how GPUs exchange data during training, both within a server and across a network.
- Compared the activity recorded by GPUs, network switches, and job schedulers to explain how operators could spot unexpected communication during a training run.

George Mason University | WindTexter Research Intern Summer 2025

- Developed parts of the SwiftUI app and Python backend for WindTexter, a research project that encodes private messages in ordinary text.
- Connected the app to SMS and email delivery and added a chat view that lets users switch between the original message and its cover text.

Work Experience

Cox Farms, Centreville, VA

Market Leader September to November 2026

- Earned a promotion after two seasons as a market associate. Assigned jobs and made sure staff had supplies and extra help during rushes.
- Coordinated bulk pumpkin orders, answered customer questions, and stepped in at the register or on the floor when the team needed help.

Market Associate and Cashier Fall 2024 and Fall 2025

- Rang up purchases, restocked items, and helped customers find products during the fall festival.

Technical Skills

Languages: Python, Java, Swift, HTML, CSS, JavaScript

Application development: SwiftUI, Flask, Xcode, AVAudioEngine

Cloud and deployment: Docker, AWS ECS Fargate, AWS Cloud Map, AWS Secrets Manager

AI and verification: Claude, LM Studio, Z3, SymPy

My Projects

CrossCheck: AI Answer Verification Venture concluded

- Built and publicly launched a web app that checked claims in AI-generated answers. Users could see which results a solver had verified, review the calculation steps, and identify responses that were still unverified.
- Deployed four Docker services on AWS ECS Fargate: an API, the Z3 theorem prover, the SymPy math engine, and a physics service. Connected them over a private network using AWS Cloud Map.
- Used Claude as a coding partner while learning to configure private networking, manage credentials with AWS Secrets Manager, and troubleshoot deployment issues.

CreatorPredict | Web Developer and Head of Business Development

- Built the website from the ground up with Claude as a coding partner. Developed the prediction and scoring features that let fans earn points for forecasting a creator's audience growth.
- Prepared partnership materials for creators interested in joining the platform.

CoinFluence | Co-founder

- Developed the concept for a platform where creators could launch cryptocurrency tokens for their audiences to buy, hold, and trade. Identified prospective creators and drafted outreach tailored to their work.

Refined Harmony

- Built a SwiftUI app to help people who could not afford noise-canceling headphones hear their audio more clearly. Used AVAudioEngine to measure background noise and adjust playback volume on the headphones they already owned.

Tutoring and School Involvement

Academic Support Center Tutor Freedom High School

- Help students work through math, science, and English assignments, focusing each session on the concepts or questions they find difficult.

Peer Tutoring Club Middle School

- Tutored five students in math, Spanish, and science.

Science Olympiad | Coding Craze Coach

- Coached elementary school students for the Coding Craze competition. The team placed in the top five.

National Honor Society

- Help with donation drives and community projects, most recently the Toys for Tots drive.

Computer Science Honor Society

- Participate in Hour of Code and other activities that introduce local elementary school students to programming.

Educators Rising

- Tutor elementary school students before school, guide them through learning activities, and help teachers with morning classroom logistics.