

# Hanish Vadlamudi

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A passionate Information Science student eager to tackle challenges in software engineering, ML, and data analysis. Driven to create innovative technology with a positive impact on the world.

## EDUCATION

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University of Maryland - College Park

(Graduating May 2026)

- **Major:** Information Science
- **Minor:** Data Science
- **Relevant coursework completed as of 2024:** Object Oriented Programming, Databases, Statistics, Discrete Math, and Calculus
- **Clubs:** DoQuantum, Undergraduate Quantum Association, Hack4Impact, UMD Badminton, UMD Club Climbing

### Certifications

- Certified **AWS Cloud Practioner**
- Currently Working Toward **OCI Generative AI Professional Certification**

## PROFESSIONAL EXPERIENCE

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**New York Life Data & AI Engineering Intern**

June 2025 – Aug 2025

- Conducted performance analysis for a firm-wide advisor collaboration initiative, improving team scalability, retention, and operational efficiency.
- Built a centralized analytics tool by cleaning and unifying fragmented data sources, enabling cross-unit insights and faster reporting.
- Labeled and structured performance data to support future AI use cases, including predictive modeling and agent segmentation.
- Automated reporting workflows using **Python**, **VBScript**, and **Excel**, reducing manual work and error rates across internal reports.

**Hack4Impact Software Engineer**

Sept 2024 – May 2025

- Engaged with Hack4Impact, a student-driven initiative creating software solutions for nonprofits to maximize social impact and empower communities through technology.
- Building a grant management application using **Firestore + React** for the Children’s Cancer Foundation, significantly reducing administrative workload and accelerating grant processing time for foundation staff.
- Enabled the Children’s Cancer Foundation to more effectively allocate resources, supporting their mission to advance pediatric cancer research and enhance support for affected families.

**Microsoft Hack4Good 3.0 – Nature Conservancy Prompt Engineer**

Feb 2025 – Mar 2025

- Participated in a 7-week hackathon sponsored by Microsoft TSI (Tech for Social Impact) to build an AI-powered chatbot that enhanced website usability and engagement for The Nature Conservancy.
- Mainly Contributed to **prompt engineering** and persona experimentation to optimize natural language interactions and align tone with user expectations.
- Introduced an intuitive conversational interface that offered improved content discovery and search functionality, complementing the existing in-site search.
- Built using **Azure** services for backend integration and scalability, and **Blazor (C#)** for the front-end user experience.

## TECHNICAL SKILLS

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**Skills** Java, C, JavaScript, Python, R, PostgreSQL, MySQL, AWS, HTML, CSS, Jupyter Notebook, Git, Firebase

**Tools** Eclipse, VS Code, Github, Postman, pgAdmin

## HIGHLIGHTED PROJECTS

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### fMRI VR

- Built a **React (Vite)** web portal with **Supabase** backend for doctors to securely manage patient fMRI data and authenticate via **Google OAuth**.
- Implemented secure file storage and retrieval using signed URLs while maintaining **BIDS-compliant** dataset organization.
- Developed VR visualization features using **Unity (C#)** and integrated **Python** services to process and deliver data for real-time exploration.
- Designed an end-to-end system enabling seamless data upload, management, and immersive 3D visualization of brain scans.

### Circa

- Built a daily energy tracking app using **React (Vite)**, **Firestore**, and **TailwindCSS**, enabling users to log and visualize their energy levels across a 24-hour cycle.
- Implemented real-time data storage with **Firestore**, updating user graphs dynamically as new entries are added.
- Designed a clean, mobile-responsive UI to promote seamless daily input and personalized pattern recognition.

## INTERESTS

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- **Quantum Computing:** Regularly stay updated on developments in quantum computing and explore its potential applications in various fields.
- **Stocks and Investing:** Analyzing financial markets and developing an understanding of risk management and long-term financial planning.
- **Languages:** Passion for learning and engaging with languages from diverse cultures, allowing me to gain new perspectives.