

# Hanish Vadlamudi

 [mistahanish](#) |  [Hanish Vadlamudi](#) |  [me@hanishv.com](mailto:me@hanishv.com) |  +01.312.799.0814

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

### 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

### Hack4Impact *Software Engineer*

Sept 2024 - Present

- 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 **Firebase + 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.

### Somy Technologies *SWE Intern*

June 2024 - Aug 2024

- Developed a secure document storage backend in Python with **FastAPI, PostgreSQL, and JWT**, strengthening data protection and access.
- Leveraged **AWS** (S3, SQS, EC2) for scalable storage and messaging, optimizing resource management.
- Streamlined deployments through **CI/CD** pipelines with GitHub Actions, ensuring reliable and efficient releases.

## TECHNICAL SKILLS

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

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

## HIGHLIGHTED PROJECTS

### Circa

- Built a daily energy tracking app using **React (Vite)**, **Firebase**, and **TailwindCSS**, enabling users to log and visualize their energy levels across a 24-hour cycle.
- Implemented real-time data storage with **Firebase 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.

### Linky

- Developed a semantic search-based game utilizing **Python** with **FastAPI** and **React** for backend logic and a responsive frontend, ensuring a seamless user experience.
- Built scoring logic using **cosine similarity** with **Gensim** and **Word2Vec** embeddings to calculate word proximity.
- Established real-time connections with **WebSockets** to connect player endpoints, making gameplay competitive and engaging.

## INTERESTS

- **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.