Hanish Vadlamudi

 mistahanish | Hanish Vadlamudi | 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. Interested in Quantum Computing.

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:** 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.

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.
- Enhanced application reliability through comprehensive testing with APIs and Postman.

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

Altus

- Developing **Python**-based application that estimates body fat percentage from user photos using advanced image analysis with **LLaMA** and machine learning models.
- Utilizes **large language models** for enhanced user interactions and personalized fitness advice.
- Incorporates Python libraries like **OpenCV, TensorFlow/PyTorch, and NumPy/Pandas,** with a focus on data privacy and secure data handling.

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.

Poker Flip

- Developed a poker flip game using **React**, driven by a passion for statistics and card games.
- Implemented game logic to simulate poker outcomes.
- Utilized **JavaScript** and **CSS** for responsive design, custom animations, and enhanced user experience.

INTERESTS

- **Blogging**: Enjoy writing about topics related to technology and personal growth, aiming to share knowledge and insights with a broader audience.
- **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.