

DHIRA VADLAMUDI

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EDUCATION

University of Maryland

Aug. 2024 – May 2028

B.S. Computer Science (Machine Learning) & Biology (Bioinformatics)

College Park, MD

- GPA: 3.792; Dean's List all semesters; College Park Scholars Data Justice Program
- Coursework: Algorithms, Computer Systems, Designing Fair Systems, Applied Probability & Statistics

EXPERIENCE

Software Engineering Intern, Intelligence & Homeland Security

May 2026 – Aug. 2026

GDIT (General Dynamics Information Technology)

Herndon, VA

- Built a machine-learning classifier detecting prompt-injection and jailbreak attacks, reaching 96% recall on 543 unseen attacks
- Diagnosed and repaired 46% corrupted labels in the training data through iterative retraining
- Added uncertainty-based guardrails to flag unfamiliar attacks; authored a proposal adopted for further development of internal guardrail systems
- Built a Flask web app demonstrating the full detection pipeline to stakeholders

Software Engineer, AI Team

Feb. 2026 – Present

University of Maryland, Division of Information Technology

College Park, MD

- Built an end-to-end Playwright QA pipeline for a document-review product, cutting releases from bi-weekly to weekly
- Created an automated bug-repair pipeline feeding Playwright failure output to LLMs to propose fixes to production code
- Developing an onboarding chatbot with Jira/Atlassian connectors to answer new-hire questions

Software Engineering Intern

May 2023 – Aug. 2023

Praxis Engineering

Annapolis Junction, MD

- Developed an NLP application for referencing past corporate projects, cutting research and summarization time by 65%
- Reverse-engineered router firmware in Ghidra to identify vulnerabilities, building C and Python tooling for analysis

PROJECTS

Veris | *PyTorch, QLoRA, llama.cpp, FastAPI, Docker, NVIDIA Jetson* | [Live Demo](#) | [GitHub](#)

Aug. 2025 – Present

- Co-founded and built the full stack for a privacy-first assistive-vision wearable streaming spoken scene descriptions from a local vision-language model on a Jetson Orin Nano; backed by AIM, UMD's AI institute, with ongoing funding
- Cut response time 3.7x, from 13.5s to 3.6s, under tight on-device power, thermal, and memory limits
- Trained and shipped a custom model in one sprint on 653 curated examples, halving incorrect answers on hard images with no speed penalty
- Built an automated test suite and data pipeline turning user feedback into training data, raising key accuracy metrics by double digits
- Designed a Dockerized, cost-guarded cloud service (FastAPI, Google Maps) feeding the on-device model GPS-based context

UMD Coffee Club Operations Platform | *React, Supabase, Vercel* | [GitHub](#)

Dec. 2024 – Present

- Founded and lead the analytics team behind the club's internal operations platform, in production over a year and used daily by ~20 members, managing ~\$3K of spend across 26+ events and 3,600+ attendees
- Eliminated spreadsheet-based tracking (8 documents to 0) with automated inventory projections that forecast supply needs and flag shortages; built order-tracking, maintenance-logging, and event-scheduling modules

ACTIVITIES & HONORS

- **Eagle Scout** & Senior Patrol Leader (2016–2024): led a 120+ member troop; organized 1,000+ hours of community service
- UMD Coffee Club Executive Board; UMD Terps Racing (EV) electrical sub-team: thermistor sensor systems (2024–2025)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, Rust, SQL, Bash, x86 Assembly

ML / AI: PyTorch, Hugging Face (Transformers, PEFT), QLoRA fine-tuning, llama.cpp / GGUF quantization, LLM distillation & eval design, whisper.cpp, scikit-learn, vLLM / TensorRT benchmarking

Frameworks & Tools: FastAPI, Flask, React, Node, Playwright, Docker, Supabase / PostgreSQL, Git, NVIDIA Jetson, Jupyter, Figma, Microsoft Azure