

ANKUR GYAWALI

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Education

Howard University

Graduation Date: May 2026

B.S. in Computer Science, GPA: 3.97/4.0

Washington, DC

- **Coursework:** Probability & Statistics, Applied Data Science, Database Systems, NLP, Software Engineering, Operating Systems, Cloud Computing, Theory of Computation, Data Structures & Algorithms, Computer Networks, Cybersecurity
- **Honors & Awards:** Dean's List, Google Capacity Scholar, DOW SURE Scholar, HU Founders Scholarship

Technical Skills

- **Languages:** Python, TypeScript/JavaScript, SQL, Java, C/C++, MATLAB, HTML/CSS
- **Frameworks/Tools:** React, React Native, Next.js, Flask, OpenAI, Azure, spaCy, Ollama, Azure Cognitive Search, Docker, Jenkins, Git/GitHub, AWS, OpenCV, Figma, Confluence, JIRA, Linux (KVM/VM), RESTful APIs, GCP

Work Experience

Software Engineering Intern

May 2025 - Aug 2025

Dell Technologies

Round Rock, TX

- Engineered an end-to-end **Python** automation pipeline to correlate CPU usage across PowerStore builds, reducing multi-hour manual log reviews to **30 seconds** and enabling rapid triage of performance regressions.
- Architected N-ary task trees to attribute CPU usage per subtree, providing granular performance insights across 10+ concurrent builds and improving regression detection accuracy.
- Developed a **JavaScript dashboard** with test-driven components, integrating **Selenium** automated testing to boost anomaly detection efficiency by **90%** for engineering teams.

Research Assistant

May 2024 - May 2025

Howard University

Washington, DC

- Created a hybrid experimental-computational model integrating BioFlux microfluidic data with COMSOL - MATLAB simulations to predict cellular adhesion under shear stress, improving model accuracy by **30%**.
- Applied **polynomial regression** analysis to characterize shear stress-adhesion dynamics, enabling reliable forecasting of cellular attachment behavior and supporting future research in disease modeling & drug testing.

Software Engineering Intern

May 2024 - Aug 2024

Dell Technologies

Hopkinton, MA

- Developed a comprehensive Python CLI tool for automated diagnostic log analysis, reducing manual troubleshooting effort by **50%** through optimized parsing algorithms and data visualization.
- Refactored legacy codebases and implemented unit testing with **Jenkins CI/CD pipelines**, increasing tool reliability by **25%** and enabling continuous deployment workflows.

STEM Intern

Jul 2023 - Aug 2023

Tech TurnUp

Washington, DC

- Led hands-on workshops and mentored **100+** students in 3D modeling using Tinkercad and Python.
- Designed interactive AR/VR learning modules via CoSpaces.io, increasing student engagement by **25%**.

Projects

Application Tracker | Personal Project

Feb 2024 - Present

- Developed an intelligent **AI agent** using **spaCy + Ollama LLM** pipeline with **Google Cloud Platform(GCP)** OAuth2 integration to intelligently categorize job application emails, achieving **30%** improved accuracy on edge cases.
- Implemented **LLM** fallback system (Ollama Llama 3.1) for ambiguous email classification, improving parsing accuracy by **30%** with encrypted token storage & idempotent database operations, **SHA-256** de-duplication.

Lifeline Buddy: AI Emergency Dispatch System | Hackathon

Mar 2025

- Built a voice-enabled AI dispatch **agent** to support **240M+** annual 911 calls, autonomously triaging emergencies, cutting response times by **80%** & ensuring **100%** coverage when human operators were unavailable.
- Designed a real-time pipeline (**Flask, Socket.IO, MongoDB, React**) with Gemini LLM & ElevenLabs for sub-second voice triage, streaming live transcripts, severity scores, & unit recommendations across **50+** concurrent sessions.

BisonBytes Chatbot | Hackathon (2nd Overall, 3rd AI/ML Track) [YouTube](#)

Mar 2024

- Built an **AI chatbot agent** using **Azure Cognitive Search** and **OpenAI API**, giving students instant access to accurate campus information and improving accessibility for prospective applicants.
- Applied Retrieval-Augmented Generation (**RAG**) architecture to deliver contextually relevant answers in under **5 seconds**, significantly enhancing user experience and information accessibility.

Leadership & Activities

Bloomberg Bpuzzled Global Competition - Finalist

Mar 2025

Dell Technologies Campus Ambassador

Aug 2024

TMCF MetaScholars Program Participant

Apr 2024

Goldman Sachs Market Madness: HBCU Possibilities Program

Feb 2024

Tech for Change Club, Howard Chapter - President

Aug 2023

NASA Goddard Space Flight Center - Bison Externship

May 2023