Moiz Uddin

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EDUCATION

University of Maryland, College Park — College Park, MD
B.S. in Information Science, Dean's List — Beginning M.S. Fall 2026 — *Aug. 2022 – May 2026*

EXPERIENCE

Astound — May 2025 – Aug. 2025
Software Engineering Intern — *Princeton, NJ*
- Architected and deployed scalable competitive intelligence platform on GCP (Cloud Run, Cloud Storage) aggregating 14K+ reviews across 4 ISPs using Python, PRAW API, and Google Maps API with automated NLP sentiment analysis pipeline (VADER).
- Developed full-stack review analytics dashboard with Python Flask backend and JavaScript/HTML/CSS frontend, processing Yext API and Google Maps data to enable MoM performance tracking across 48 retail locations, achieving $11K quarterly cost reduction.
- Engineered automated web asset auditing system using Python and BeautifulSoup4 to crawl astound.com/learn domain, identifying 60+ image source inconsistencies and improving site integrity, reducing QA time by 75%.

Pelerei LLC — Aug. 2023 – May 2025
AI Research Intern — *Jefferson, MD*
- Trained and deployed GPT-4o chatbot for madelynblair.com using OpenAI API with custom fine-tuning on NLP-processed transcripts, serving 41K+ visitors and handling 2K contextual queries with 95% user satisfaction.
- Built Python simulation framework modeling GenAI's impact on critical thinking across 400 students and 4 learning scenarios, demonstrating 33.6% performance improvement when combined with self-confidence interventions.
- Implemented comprehensive SEO optimization including technical site architecture improvements, keyword and audience research, driving 348% YoY organic traffic growth and 22% improvement in conversion rates.

PROJECTS

NFL Matchup Predictor | *Python, scikit-learn, Pandas, NumPy, Machine Learning* — 2025
- Engineered end-to-end ML pipeline predicting NFL outcomes with 71% accuracy across 5 seasons (1,280+ games), implementing Random Forest, Logistic Regression, and XGBoost classifiers with hyperparameter tuning via GridSearchCV; performed feature engineering on 25+ team statistics including offensive/defensive efficiency, turnover ratios, and historical matchup data.

TaskFlow | *Python, Redis, Docker, REST API, Microservices* — 2025
- Engineered a distributed task scheduling system with priority-based queueing using Python Flask, Redis, and Docker, enabling horizontal scalability across multiple worker nodes with automatic failover, retry mechanisms, and timeout handling to process asynchronous workloads reliably at scale.

CERTIFICATIONS AND AWARDS

AWS Certified Cloud Practitioner | *Cloud Computing, Infrastructure, Deployment* — Amazon Web Services
Google AI Essentials | *Artificial Intelligence, Generative AI, Responsible AI* — Google
CyberPatriot Platinum Tier | *National Top 200, Cybersecurity Competition* — U.S. Air Force
Bethesda Friends of Agriculture Research Award | *Data Analytics in Agriculture* — Montgomery County

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C++, SQL, HTML/CSS, C, R, Bash
Frameworks & Libraries: React, Node.js, Flask, scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, pytest, JUnit
Tools & Technologies: Git, Docker, Kubernetes, AWS (EC2, S3, Lambda), GCP (Cloud Run, BigQuery), Linux, GitHub Actions, Jenkins, Terraform, Kafka, Prometheus, Grafana, VSCode
Databases: MySQL, MongoDB, PostgreSQL, Redis, DynamoDB
Specializations: Distributed Systems, Data Structures & Algorithms, Machine Learning, NLP, Deep Learning, REST APIs, Microservices, System Design.