

# Udit Verma

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## EDUCATION

### George Mason University

B.S. Computer Science [Machine Learning and Artificial Intelligence]

Expected: Fall 2024

Honors College Student

## COURSEWORK

**Computer Science Courses:** Object-Oriented Programming, Data Structures & Algorithms, Software Engineering, Data Mining, Deep Learning, Artificial Intelligence, Machine Learning, Computer Vision

**Mathematics Courses:** Discrete Math, Linear Algebra, Calculus, Probability & Statistics, Physics

## SKILLS

**Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Assembly (x86-64), Shell Scripting

**Tools:** Git/GitHub, VS Code, Jira, Docker, Kubernetes

**Frameworks:** TensorFlow, PyTorch, FastAI, Django, Node.JS, Express.JS, Amazon Web Services, Azure ML, Google AI

**Skills:** Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Dynamic Programming, Algorithm Design, Automation, Data Science, Data Analysis, Cloud Computing, APIs, Model Deployment

## EXPERIENCE

### Atikin Consulting | Machine Learning Engineer Intern

April 2022 – Present

- Developed and deployed **machine learning models** to enhance **database management systems**, achieving a **30% improvement in query processing** and data retrieval speeds. This optimization led to an estimated annual cost saving of \$50,000 by reducing computational resources and time required for data operations.
- Automated administrative tasks using **Python scripts** and **machine learning algorithms** to predict and manage system loads and user permissions, significantly reducing manual oversight. This automation enhanced **system security** and **efficiency**, leading to a 20% reduction in operational costs.

### CBIZ MHM LLC | IT Risk and Assurance Intern

Sep 2022 – Dec 2022

- Conducted **three (3) risk assessments and audits at a global top ten (10) consulting firm**, enhancing system integrity and compliance through targeted mitigating measures.
- Part of **6+ IT audits** across multiple disciplines, ensuring **100% compliance with industry standards and company policies**, and developed a comprehensive IT risk framework, **reducing incidents by 15%**
- Partnered with senior stakeholders and partners** to create work papers for SOX compliance and audit report preparations, identifying control deficiencies to improve the organization's compliance posture.

## PROJECTS

### Garden Angel | HackOverflow Hardware Hackathon, First (1st) Place Winners

Spring 2024

- Developed "Garden Angel," a Smart Garden System that won first place. The system utilizes Arduino-based sensors to monitor and update environmental variables like soil moisture, humidity, and temperature.

### LiveCensor | Python, TensorFlow, Keras, CUDA, OpenCV

Spring 2024

- Engineered "LiveCensor," an advanced live video censoring tool using TensorFlow, Keras, and CUDA for real-time processing, employing machine learning models to detect and blur sensitive content dynamically.

### FixMyResume | Python, TensorFlow, ReactJS, Large Language Models, APIs, Web Scraping, Data Analysis

Spring 2024

- Developed "FixMyResume," a Python-based ML application that utilizes TensorFlow and Large Language Models to automate keyword extraction and personalize resume content, significantly enhancing job application success rates.

### RentGMU | AWS (EC2, Route53, Amplify), Node.JS, Express.JS, JavaScript, React, APIs, Git, Ubuntu

Spring 2024

- Developed "RentGMU," a comprehensive peer-to-peer equipment rental platform at George Mason University, enhancing community engagement through advanced features for secure and efficient resource sharing.