Aniket Tuli

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Education

University of Wisconsin - Madison   **May 2025**
Bachelor of Science in Computer Science, Data Science

Relevant Coursework

Artificial Intelligence, Database Management, Programming Languages, Data Modeling, Machine Learning, Data Structures, Algorithms, Discrete Math, Applied Statistics, Software Security, Human-Computer Interaction.

Experience

Oshkosh Corp | *Software Engineer Intern* | **Sept 2024 – Dec 2024**
- Developed an AI-driven supply chain insights app combining news articles with AI, accomplishing an 85% reduction in response time and achieving sub-3-second query latency.
- Optimized system performance using RAG architecture, embedding models, and a vector data store.
- Seamlessly integrated 3 AI models with a React Native frontend by developing REST API endpoints using Flask.

Midwest Label Supply | *Software Developer Intern* | **June 2024 – July 2024**
- Designed a centralized platform for multiple vendors to enable efficient tracking of parcels and food using QR codes with user authentication and role-based access control.
- Designed a React frontend and Flask backend with SQLite/PostgreSQL, improving workflow efficiency and traceability by 40% across over 50 client applications.

Scale AI | *Data and Software Engineer Intern* | **June 2024 – Aug 2024**
- Developed and maintained critical internal tools using both Java and Python, directly supporting and accelerating large-scale language model (LLM) training workflows.
- Enhanced code quality by conducting detailed peer reviews and writing comprehensive unit and integration tests to ensure the stability of existing operational tools.

School of Human Ecology – UW | *Student Computer Specialist* | **Sept 2022 – May 2025**
- Managed IT support for over 500 devices and 100 users, improving system uptime by 15%.
- Ensured zero-trust secure access with MDM systems and implemented a Zammad ticketing system to accelerate support

Projects

Kitchen2Fork - GDSC CheeseHacks | Python
- Developed an AI-powered recipe generator with 30,000 recipes for retrofitting in refrigerators, allowing users to capture ingredients from a live camera feed.
- Built a user interface using PyQt6 and image capture using OpenCV, achieving 97% ingredient detection accuracy.

Distributed Weather Data Pipeline | Python
- Developed a scalable, real-time data ingestion system by creating a Kafka producer that streamed daily weather records from a MySQL database to a Kafka topic.
- Guaranteed data consistency and resilience by implementing fault-tolerant Kafka consumers, writing atomic Parquet files to HDFS with checkpointing for "exactly once" delivery.

MINIREL(DBMS) | C/C++
- Developed a single-user DBMS with a buffer manager and a Heapfile manager for optimized structured data storage.
- Reduced SQL query latency by 40% by designing a cost-based query execution engine.

FashionVision: Advanced Fashion Classification | Python
- Designed, implemented, and optimized a CNN to classify the MNIST dataset in Pytorch, achieving 93% accuracy.

Technical Skills

Programming and Frameworks: Python, Java, JavaScript, TypeScript, C/C++, React, Node.js, Flask, HTML, CSS
Data, AI/ML & Cloud: AWS, Google Cloud, PyTorch, TensorFlow, SciKit-Learn, Docker, Spark, Kafka, Pandas, NumPy, RAG, gRPC, BigQuery, Dataform, PyArrow, OpenCV, MapReduce, Flax, Selenium
Databases & Tools: Git, MySQL, PostgreSQL, Cassandra, SQLite, CI/CD, Jira, Agile, Scrum, GitHub, APIs, PyQt6

Leadership & Volunteering

Indian Students Association | President | **May 2022 – May 2025**
- Organised 20+ cultural events and charitable fundraisers for the largest student organization, engaging 800+ members across 10+ nationalities.
- Directed a 40-person executive board, streamlining operations and guaranteeing successful execution of 20 annual events

Microsoft TEALS | Volunteer | **Sept 2024 – May 2025**
- Mentored diverse students on Python-based computer science fundamentals to promote tech careers.