

# Aniket Tuli

Software Developer

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## EDUCATION

University of Wisconsin - Madison

Graduation: May 2025

Bachelor of Science in Computer Science, Data Science

GPA: 3.4

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

## 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
- Databases & Tools:** Git, MySQL, PostgreSQL, Cassandra, SQLite, CI/CD, Jira, Agile, Scrum, GitHub, APIs, Selenium, PyQt6

## WORK EXPERIENCE

Software Engineer Intern | Oshkosh Corp

Sept 2024 - Dec 2024

- Accomplished an **85% reduction in response time** and achieved **sub-3-second query** latency by developing an AI-driven supply chain insights app combining news articles with AI.
- 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.

Software Developer Intern | Midwest Label Supply

June 2024 - July 2024

- Improved vendor workflow efficiency by 40%** by designing a centralized platform for multiple vendors, enabling efficient tracking of parcels and food using QR codes.
- Enhanced supply chain traceability by building a React frontend and Flask backend with SQLite, scalable to PostgreSQL.
- Developed user authentication and role-based access control, streamlining operations across **50+ client applications**.

Student Computer Specialist | School of Human Ecology – UW

Sept 2022 - May 2025

- Improved system uptime by 15%** by managing **IT support for 500+ devices** and resolving user issues efficiently.
- Ensured secure access for **100+ users** by setting up and maintaining MDM systems with zero trust principles.
- Implemented Zammad ticketing system** to accelerate support and improve information capture, while monitoring IT infrastructure and **Active Directory security** for seamless operations.

## PROJECTS

Kitchen2Fork - GDSC CheeseHacks | Python

- Developed an AI-powered recipe generator using a Flax-T5 transformer from HuggingFace, achieving **97% ingredient detection accuracy** with fine-tuned Google Cloud Vision Image Classifiers.
- Built a PyQt6 frontend with camera input and integrated it with **OpenCV** for real-time ingredient capture, enabling a seamless user experience.
- Provided users with **30,000+ personalized recipes**, enhancing meal planning efficiency and creativity.

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 with advanced optimization techniques.

Distributed Weather Data Pipeline | Python

- Engineered a **scalable, real-time data ingestion system** by developing a Kafka producer that streamed daily weather records from a MySQL database to a Kafka topic with 4 partitions and 1 replica.
- Guaranteed data consistency and resilience** by implementing fault-tolerant Kafka consumers, writing atomic Parquet files to HDFS with checkpointing for "exactly once" delivery.

FashionVision: Advanced Fashion Classification | Python

- Achieved **93% classification accuracy** by developing an advanced fashion classification model using PyTorch.
- Improved model efficiency by implementing custom batch sizes, data loaders, and image normalization techniques.

## LEADERSHIP AND VOLUNTEERING

Indian Students Association | President

May 2022 - May 2025

- Orchestrated** 20+ cultural events and charitable fundraisers for the largest student organization, **engaging 800+ members** across 10+ nationalities and **significantly enriching cross-cultural experiences**.
- Directed** a 40-person executive board, **streamlining operations** and guaranteeing the 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.