

Kartik Gangwar

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EDUCATION

University of Wisconsin-Madison
B.S. in Computer Science, B.S. in Data Science

- Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Linear Algebra, Computer Engineering
- Awards:** Global Semi-finalist at iStart Valley's Business Pitch Competition (2024), 4th Place Illinois Speech & Debate State Finals (2025), 3rd Place – UW Madison Product Management Case Competition (2026)

GPA: 3.7/4.0
May 2028

EXPERIENCE

Software Engineering Project Manager
AI@UW

- Delivered actionable market insights to 5 live dashboard modules through successful demo delivery to **20+ club members**, by building **FinBERT-based NLP** and sentiment-scoring pipelines in **Python** and **FastAPI**
- Built validation, testing, and data-cleaning pipelines across financial headline and market data ingestion services, achieving 100% backend smoke test pass rate
- Reduced dashboard latency for end users by designing REST APIs and streaming data pipelines built to scale with growing data volume

March 2026 – Present
Madison, WI

Lead Software Engineer
FiPet

- Grew a gamified financial literacy app to **2000+ downloads** by designing Firestore data models and real-time synchronization features in React Native and TypeScript
- Cut data-sync defects **35%** by adding validation logic and automated tests to distributed authentication and gamification services
- Improved engineering velocity across a **25+ person team** by establishing code review standards, Git branching workflows, and structured sprint execution

Oct. 2025 – Present
(Remote) Madison, WI

Technology Strategy Intern
iStart Valley

- Informed the go/no-go decision on a VR mental health platform through adoption of my recommendation by founding leadership, by conducting statistical and technical feasibility analysis of candidate AI/ML approaches
- Accelerated leadership alignment on product direction by translating **AI/ML research** into prototypes and evaluation summaries

Jun. 2023 – Sept. 2023
Fort Worth, TX

Software Engineering Instructor
STEMShala Enrichment Center

- Strengthened programming skills for **40+ students**, as measured by a **90% project completion rate**, by designing and teaching a project-based Python and JavaScript curriculum
- Improved competition robotics performance to a top-10 regional finish, by coaching students on sensor data interpretation and autonomous system design

Jun. 2023 – Aug. 2025
Naperville, IL

PROJECTS

AI Market Sentiment Dashboard | github.com/Kgan3039/ai-market-sentiment-dashboard

- Implemented **FinBERT-based NLP** and **machine learning pipelines** for financial headline and social sentiment analysis
- Designed and implemented client-server workflows through **REST APIs** and real-time data pipelines supporting ML prediction outputs, stock fundamentals, and frontend visualizations

TrueNeed | github.com/Kgan3039/TrueNeed

- Built a real-time mutual aid platform using React Native and Firebase, supporting live offer/request posting and automated resource matching workflows
- Designed Firestore-backed authentication systems, dynamic matching logic, and real-time feed synchronization for a panel of **8 judges** and **80+ hackathon participants**

CNN Image Recognition for Medical Imaging

- Improved classification reliability for brain cell trauma pattern recognition, as measured by validation performance across medical imaging datasets, by building and optimizing **CNN models** in **TensorFlow** and **NumPy**
- Experimented with **hyperparameter tuning** and **dataset optimization techniques** to improve classification performance and model reliability

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL
Frameworks & Technologies: React, React Native, FastAPI, Firebase, Firestore, Node.js
Backend & Tools: Git, GitHub, Linux, VS Code, Jupyter Notebook
ML/AI: TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, FinBERT