

Kartik Gangwar

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EDUCATION

University of Wisconsin-Madison

GPA: 3.7/4.0

B.S. in Computer Science, B.S. in Data Science

May 2028

- **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)

EXPERIENCE

Software Engineering Project Manager

March 2026 – Present

AI@UW

Madison, WI

- Built a full-stack AI market sentiment dashboard using **FastAPI, React/Vite, and FinBERT** across a 5-member engineering team
- Developed backend/frontend API contracts supporting 5 dashboard sections, including financial headlines, market data ingestion, **ML prediction outputs**, and dashboard visualization workflows
- Debugged REST API failures, frontend state mismatches, and ML service integration, validating the system with a 14/14 backend smoke test suite for live demo readiness

Lead Software Engineer (CTO)

Oct. 2025 – Present

FiPet

(Remote) Madison, WI

- Developing FiPet, a gamified financial literacy platform with **300+** downloads using React Native, **TypeScript, Firebase, Firestore, and Cloud Functions**
- Architected feature integration workflows, Git-based version control practices, and sprint coordination across a 20-person cross-functional development team
- Built backend APIs, authentication systems, and real-time gamification features for a financial literacy platform

Technology Strategy Intern

Jun. 2023 – Sept. 2023

iStart Valley

Fort Worth, TX

- Developed technical prototypes and implementation plans for a VR-based mental health platform, including headset interaction workflows and immersive therapeutic environments
- Promoted to Associate Vice President of the Youth Executive Committee of the Technology Subdivision

Software Engineering Instructor

Jun. 2023 – Aug. 2025

STEMShala Enrichment Center

Naperville, IL

- Taught Python and JavaScript to **40+** middle and high school students through project-based technical instruction
- Coached FLL robotics teams on sensor integration, autonomous design, and problem-solving strategies
- Designed hands-on programming exercises and robotics challenges to strengthen student software development skills

PROJECTS

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

- Implemented FinBERT-based NLP pipelines for financial headline and social sentiment analysis
- Developed REST APIs and real-time ingestion pipelines for 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**

Convolutional Neural Network Image Recognition Project

- Built and optimized **CNN models in TensorFlow and NumPy** for brain cell trauma pattern recognition using medical imaging datasets
- 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

AI/ML: TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, FinBERT

Developer Tools: Git, GitHub, Linux, VS Code, Jupyter Notebook