

KASHYAP HEGDE KOTA

623-276-7754 | kkota3@asu.edu | [Portfolio](#) | [Linkedin](#) | [GitHub](#)

EDUCATION

Bachelor of Science in Computer Science, Arizona State University GPA: 3.83/4.00	Tempe, AZ <i>Expected May 2026</i>
<ul style="list-style-type: none">Coursework: Artificial Intelligence, Applied Machine Learning, Cloud Computing, Operating Systems, Computational Theory, Data Structures and Algorithm	

TECHNICAL SKILLS

Languages: Python, C++, C, Java, JavaScript, C#, SQL, R
Frameworks: Flask, Django, PyTorch, TensorFlow, Scikit-Learn, Pandas, numpy, Next.js, RESTful, LangGraph, Langchain, React, Node.js, JUnit, FastAPI
Developer Tools: Git, GitHub, Docker, Amazon Web Services, Google Cloud Platform, VS Code, MySQL, PostgreSQL, HuggingFace

EXPERIENCE

Software Development Intern <i>WalnuTech PBC Inc.</i>	October 2025 – Present <i>Phoenix, AZ</i>
<ul style="list-style-type: none">Developed a Human-in-the-Loop data pipeline using Python, Flask and LangGraph, automating the ingestion and standardization of unstructured scholarship dataDesigned a two-phase LLM verification protocol with a 3-tier parsing fallback, ensuring 99% extraction reliability even on malformed inputOptimized the data ingestion pipeline into an asynchronous architecture using asyncio, slashing processing latency by 98% (from 10 seconds to 200ms per scholarship) and optimizing API costsConstructed a comprehensive test suite, simulating external API failures and concurrent race conditions to validate the LangGraph state machine and Flask endpoints	
Undergraduate Research Assistant <i>Arizona State University</i>	August 2025 – Present <i>Tempe, AZ</i>
<ul style="list-style-type: none">Fine-tuned VideoLLaMa3-7B LLM on over 12,000 video-question-answer pairs for urban traffic analysis using PyTorch, DeepSpeed, and HuggingFace TransformersOptimized training infrastructure for NVIDIA A100 80GB GPU using advanced memory management techniques including ZeRO Stage 2, gradient-check-pointing, and custom CUDA allocation strategies	
Software Developer Intern <i>ErithMe Solutions</i>	May 2024 – August 2024 <i>Dubai, U.A.E.</i>
<ul style="list-style-type: none">Architected and deployed a full-stack Attendance Tracking application using React to build a dynamic, component-based UI and Node.js for a scalable backendDeveloped an automated reporting module that generated real-time, actionable dashboards, saving the administrative team over 10 hours of manual work weekly	

PROJECTS

Formula 1 2026 Carbon Emission Projector <i>Next.js, AWS Lambda, FastAPI, DynamoDB</i>	Link
<ul style="list-style-type: none">Architected a serverless microservice on AWS Lambda to simulate the carbon footprint of the 2026 Formula 1 season.Designed a CI/CD pipeline using GitHub Actions to automate testing and deployment, solving complex cross-platform dependency resolution (Windows/Linux) for Python packages.Engineered a high-performance NoSQL schema in DynamoDB to store and retrieve geospatial circuit data with sub-10ms latency.Implemented AWS API Gateway with custom routing and CORS configurations to securely expose the FastAPI backend to the public web.	
AI Image Captioning System <i>Python, Streamlit, NLP, LSTM, CNN</i>	Link
<ul style="list-style-type: none">Engineered an end-to-end image captioning pipeline that transforms raw image pixels into natural language descriptions, bridging computer vision and Natural Language ProcessingDesigned an Encoder-Decoder architecture, leveraging ResNet-50 (CNN) to extract visual features and an LSTM network (Decoder) to generate coherent captions	