

EXPERIENCE

Mindful AI Framework Assistant

Jun 2025 – Present

WP Carey School of Business, Arizona State University

Remote

- Developed an **AI Risk Repository** using the Mindful AI Framework, improving risk classification accuracy and expanding taxonomy coverage.
- Conducted a study on **LLM-based classification pipelines**, benchmarking techniques such as Reflexion and hierarchical agents across multiple large language models to optimize performance and reliability.
- Enhanced the **MIT AI Risk Taxonomy** classification process by labeling over **1,100 incidents**, improving dataset consistency and achieving classification accuracy of up to **80%**.

Research Aide

Oct 2024 – Aug 2025

WP Carey School of Business, Arizona State University

Tempe, AZ

- Engineered a **Retrieval-Augmented Generation (RAG) system** for academic course data, improving search efficiency by 40%.
- Migrated LLM codebase from **Google Colab** to **AWS SageMaker Studio**, enhancing scalability and reproducibility.
- Developed a **multimodal trajectory prediction pipeline** on the Waymo Open Dataset using Google Gemma-2-9B with LoRA fine-tuning; integrated image-to-text encoding, contextual prompts, and trajectory intent prediction, achieving a benchmark score of **7.36** (vs. 7.52 baseline).

EDUCATION

Master of Computer Science, Arizona State University

Expected Dec 2025

CGPA: 4.0

Relevant coursework: Software Verification Validation & Testing, Data Processing at Scale, Data Visualization

PROJECTS

Student Loan Repayment System

Oct 2025 – Oct 2025

- Cut manual data entry 90% by building an AI-assisted CSV importer with automated column mapping and a full-stack loan platform (React 19, FastAPI, MongoDB) featuring AI loan calculations and a real-time analytics dashboard.
- Delivered a conversational AI chatbot with flow management and state-specific tax logic to personalize loan payoff projections and optimize employer-match strategies, helping employees save thousands in interest.
- Hardened the stack with end-to-end encryption (in transit/at rest), PII masking, JWT auth, RBAC, and audit logging, reducing exposure risk for sensitive financial data.
- Achieved sub-second p95 responses across admin and employee portals via async REST APIs, lazy-loaded React components, and optimized state management.

SKILLS

Programming Languages: Python, C++, Java, SQL, Bash

Frameworks & Libraries: Transformers, LangChain, Django, Bootstrap

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, Helm, Anaconda

Systems & Tools: Unix/Linux, Apache Kafka, Minikube, Node.js Runtime, MCP (Model Context Protocol)

Domains: Deep Learning, NLP, Generative AI, AI Agents, Graph Analytics, Edge Computing, APIs