

# Akilan "Akil" Rammohan

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## EDUCATION

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### University of Wisconsin-Madison

Madison, WI

*Bachelor's of Arts, Computer Science and Data Science*

*Sep 2022 — May 2026*

- Relevant Coursework: Algorithms, Data Structures, Machine Organization, Compilers, Computer Engineering, Discrete Math, Linear Algebra, Machine Learning, Deep Learning, Programming Languages, Operating Systems, Matrix Methods in ML, Algorithmic Game Theory

## WORK EXPERIENCE

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### AI Engineering Intern

May 2025 — Aug 2025

Appfaktors

*Mountain View, CA*

- Developed RAG pipeline for unstructured enterprise software architecture data
- Architected data ingestion, vector embedding, and storage pipeline
- Tested and evaluated dozens of permutations of LLMs and embedding models on structured architecture generation tasks
- Technologies: CrewAI, PostgreSQL/pgvector, Docker, OpenRouter, OpenAI and huggingface embeddings

### SAIL Fellow

May 2025 — Aug 2025

School of Computer, Data, and Information Sciences (CDIS)

*Madison, WI*

- Developed an agentic news aggregator that handles bias and intelligently sources reputable news
- Tested agent hierarchy with combinations of orchestration agent and multiple subagents
- Sourced news data using RSS feeds, web scraping, and news APIs
- Technologies: CrewAI, Weaviate, Docker, OpenAI API, Next.js, FastAPI

### Data Analyst

May 2025 — Sep 2025

Think Fast Talk Smart, the podcast

*Los Altos, CA*

- Determined best evaluation metrics, used classical machine learning models to predict episode performance
- Explored optimal episode posting cadence and episode titling patterns
- Created insightful and clear visualizations for business team to understand
- Technologies: Python, SQL, matplotlib, pandas, Weaviate, OpenAI API, scikit-learn

### Undergraduate Researcher

May 2024 — May 2025

NeuroErgonomics Lab

*Madison, WI*

- Developed robust VR app for police training, deployed to HTC Vive and Meta Quest 3
- Implemented LLM-enabled AI NPCs to replace in-person acting requirements of contemporary police training
- Developed prompt engineering framework through robust testing to ensure consistent AI behavior
- Technologies: Unity, C#, InworldAI, ConvAI, Python, R, Tobii, Pupil Labs

## PROJECTS

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### Deepfake Audio Detection (huggingface, pandas, Kaggle)

- Compared CNN, transformer, and conformer neural network architectures for deepfake audio detection
- Finetuned downstream classifiers in open source wav2vec2 and wav2vec2-conformer sequence classification models

### TAVRFinder (Swift, SwiftUI)

- Developed iOS app that uses sizing algorithms to properly size transcatheter aortic valve replacement devices

### NBA Win Predictor (scikit-learn, PyTorch, pandas, Kaggle)

- Neural network classifier to predict a win or loss for a team given their matchup and season stats up to that point
- Achieved 64% prediction accuracy after hyperparameter search and other model improvements

## SKILLS

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- **Programming Languages:** Python, Java, JavaScript/TypeScript, C, R, C#(Unity), Haskell, Swift
- **Technologies:** Cursor, CI/CD, LangGraph, Git/Github, Docker, FastAPI, REST APIs, SQL, PyTorch, Next.js, RAG