

Krish Badri

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EDUCATION

University of Illinois Urbana-Champaign

Urbana, IL

Bachelor of Science in Computer Science & Statistics - GPA: 4.0

Dec 2026

Coursework: Data Structures and Algorithms, Computer Systems, Statistical Modeling, Machine Learning, Databases, Algorithms and Models of Computation, Numerical Methods, Linear Algebra with Computational Applications, Statistics & Probability II

Y Combinator AI Startup School

San Francisco, CA

Selected Participant

Summer 2025

EXPERIENCE

Scale AI

May 2025 – Dec 2025

Technical Advisor Intern - Part Time

Remote

- Improved agent performance by 20% in the internal GenAI stack through fine-tuning and RLHF reward modeling
- Evaluated state-of-the-art models' deep research abilities, identifying output gaps and driving targeted improvements
- Designed adversarial puzzles to expose LLM reasoning failures, including constraint errors and state tracking issues

Splunk / Cisco

May 2025 – Aug 2025

Software Engineering Intern, Global Strategy and Execution Team

San Jose, CA

- Analyzed time series data & built executive dashboards using Splunk Processing Language for Efficiency Score (EfS) project
- Built anomaly detection system using MAD, rolling medians, jump logic; surfaced KPI anomalies across 375+ F500 clients
- Architected data sanitation pipeline to isolate anomalies in KPI streams and route them to quarantine for human review

John Deere

Feb 2025 – May 2025

Software Engineering Intern, Dealer Assistant Team

Champaign, IL

- Generated LLM-based product descriptions for 2,000+ equipment items; delivered formatted results to marketing team
- Explored OpenSearch and the multimodal RAG retrieval system powering the dealer assistant used across 300+ locations
- Studied system components and contributed internal notes to support future feature planning and debugging workflows

University of Illinois Urbana-Champaign

Sep 2025 – May 2026

Incoming Research Assistant, Coordinated Science Laboratory

Champaign, IL

- Engaged with multiple faculty-led labs at CSL; currently completing preliminary tasks and project exploration
- Working with PhD students on early-stage research tasks in ML experimentation and system design

Jenkinson Enterprises, LLC

May 2023 – Dec 2023

Software Engineering & Machine Learning Intern

Houston, TX

- Adapted an open-source object recognition model for use in AR/VR headset video feeds designed for first responders
- Dockerized the ML pipeline and tested performance on internal video datasets as part of a prototype system
- Used Python, TensorFlow, OpenCV, and Docker to integrate and validate the system for real-time recognition tasks

Harvard University

Aug 2022 – Dec 2022

Teaching Assistant & Data Science Intern

Cambridge, MA

- Collaborated with Dr. Kane to develop tutorials and website for Harvard's GOV 1005 course on big data using R
- Led discussion sections and provided student support for GOV 1005, an accelerated eight-week analytics course
- Performed exploratory analysis on global population and economic data using R and data visualization tools

PROJECTS

RAG Web App - *FastAPI, React, Postgres, pgvector, OpenAI API*

Aug 2025 – Present

Personal Project

Remote

- Delivered production-ready RAG web app allowing Q&A over PDFs, images, and videos with citation-backed responses
- Implemented full ingestion pipeline including OCR/ASR, chunking, embeddings, FAISS search, and answer generation
- Engineered React+Next.js frontend, FastAPI backend, and Postgres+pgvector for multi-user and multi-modal support

Movie Recommender System - *NumPy, PyTorch, Streamlit, TensorFlow*

Aug 2025 – Present

Personal Project

Atlanta, GA

- Designed movie recommendation system using MovieLens 100K dataset to explore collaborative filtering techniques
- Used PyTorch and implementing neural network from scratch using NumPy and manual backpropagation
- Created interactive UI with Streamlit to let users rate movies and receive personalized recommendations

Breast Cancer Classification - *Python, TensorFlow, Keras, SciKit-Learn*

Apr 2024 - May 2024

The Ohio State University

Columbus, OH

- Built and compared ML models (SVM, RF, GBoost, MLP, Logistic Regression) for breast cancer classification
- Used tabular features without ROI extraction; evaluated performance using accuracy, precision, recall, and F1-score
- Achieved 92% classification accuracy on validation data; ensemble methods showed strongest generalization

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++, SQL, TypeScript

Frameworks & Libraries: React.js, Next.js, Node.js, Flask, FastAPI, Express.js, RESTful APIs

AI/ML: PyTorch, OpenAI API, Transformers, LangChain, Prompt Engineering, Tavus

Tools & Platforms: Docker, Git, Jupyter, VSCode, AWS (basic), MongoDB, PostgreSQL, Linux, Bash