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

Movie Recommender System - *NumPy, PyTorch, Streamlit, TensorFlow* — Aug 2025 – Present
Personal Project — *Atlanta, GA*
- Designing a movie recommendation system using the MovieLens 100K dataset to explore collaborative filtering techniques
- First using PyTorch before reimplementing a neural network from scratch using NumPy and manual backpropagation
- Planning an 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