

KRISH DEMBLA

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EDUCATION

Indiana University Bloomington

Bachelor of Science in Computer Science - Luddy School of Informatics

Financial Literacy and Mathematics minors – Kelley School of Business

GPA: 3.76 (Dean's List)

Achievements: President of the Club Squash team at Indiana University, Dean's List, IU Global Engagement Scholarship

Relevant Coursework: Python, Java, Data Structures, Algorithm Design, Statistics, Calculus, Data Mining and Analysis, Machine Learning, Generative AI, Systems Programming, Accounting, Financial Markets, Venture Management

Bloomington, IN

Expected May 2027

PROFESSIONAL EXPERIENCE

Louisa AI (NYC based AI SaaS Company spun out from Goldman Sachs)

Bangalore, IN

Software Engineer Intern

January 2025 – August 2025

- Designed and implemented a scalable end-to-end (E2E) test automation suite using the Playwright framework in TypeScript, significantly improving regression test coverage and reliability for the application.
- Integrated the testing suite into the CI/CD pipeline, enabling automated validation of core user flows.
- Strengthened product reliability by resolving flaky tests and ensuring comprehensive coverage across both backend APIs and frontend user interactions.

Envision Capital Management Group (Hedge Fund Analytics & Tools)

Bloomington, IN

Software Engineer

February 2025 – May 2025

- Developed a Python trading bot that leveraged APIs to enhance hedge fund analytics and optimize trading.
- Engineered a bot, leveraging the Tasty Trade and Yahoo Finance APIs to fetch real-time stock prices, detect 5% + price alerts, and automate investment alerts, thus enhancing trade execution and risk management.
- Led both front-end and back-end development, providing an intuitive interface and efficient data insights.

Cybage Software Pvt Ltd (Technology Services Company)

Pune, IN

Project Intern (Generative AI Team)

May 2024 – August 2024

- Designed and developed POCs using Python, LangChain, and RAG pipelines for prospective enterprise clients.
- Architected a Conversational Warehouse Assistant Chat Agent leveraging LangChain chains, and LLM prompt tuning to enable natural language queries over unstructured warehouse data integrated inside a RAG pipeline.
- Spearheaded a Vendor Response and Evidence Verification Agent using agents, Weaviate vector database, and custom chunking strategies to match vendor claims against supporting documents.

FM India Supply Chain (Supply Chain Logistics)

Pune, IN

IT Intern

July 2023 – August 2023

- Shadowed lead software engineer to learn the end-to-end development lifecycle of the WMS.
- Acquired foundational skills in MySQL, CSS, and JS frameworks.

PROJECTS

Conversational RAG Chatbot

- Constructed a context-aware conversational assistant using LangChain memory and chaining, enabling interaction with documents; utilized PDF Loaders, text splitters, and prompt templates to structure user input.
- Integrated a vector database and RAG pipeline to support real-time question answering over uploaded PDFs.

ChipMate – Poker Debt Settlement Web App

- Developed a full-stack application to track and resolve poker debts using a React + Axios front-end, along with a Node.js, SQLite, and WebSocket-based backend to support live multiplayer updates.
- Optimized a debt minimization greedy algorithm and live tracking, enabling efficient debt resolution.

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C.

Frameworks: React, Node.js, LangChain, TensorFlow, Playwright, PyTorch, REST

Technologies: AWS, Docker, MongoDB, Google Cloud, Excel.

Tools: Git, Scikit-learn, NumPy, Pandas, GitLab

