

Akshar Raikanti

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EDUCATION

Purdue University

B.S., Computer Science

B.S., Artificial Intelligence

Relevant Courses: Analysis of Algorithms, Systems Programming, Artificial Intelligence, Data Structures and Algorithms

West Lafayette, IN

December 2026

GPA: 3.62

Skills: Python, Java, C, C++, C#, SQL, R, JavaScript, TensorFlow, PyTorch, Relational Databases, NoSQL Databases, Google Cloud (GCP), AWS, Docker, LangChain, LangGraph, Agentic AI, RAG, ML Training, Nvidia CUDA, Computer Vision, CI/CD Pipelines, OpenShift, Jira, Apache, Git

PROFESSIONAL EXPERIENCE

Textron – Textron Systems

Hunt Valley, MD

AI/ML Software Engineer Intern

August 2025 – December 2025

- Built an agentic capture-intel pipeline (Python, FastAPI, LangGraph/LangChain) that ingests SAM.gov across 3 endpoints (metadata, synopsis, full attachments), normalizes hundreds of postings/day, and surfaces top 10 for review.
- Trained a bid/no-bid decision engine (RAG on Textron competencies via FAISS + GPT-4o) that 3x screening throughput and cut manual review time by 50%, while preserving high precision on prioritized opportunities with win-probability scoring.
- Shipped a proposal first-draft generator that extracts compliance and stitches past performance – reducing “blank-page” drafting time by 60% and standardizing voice/compliance checklists, automatically sending drafts to senior leaders.
- Operationalized and scaled results into Jira Kanban + Slack/Teams with audit logs, and prototyped mobile NLQ dashboards (React/TypeScript, React Native, PostgreSQL, Azure, Docker, OpenTelemetry) to expand beyond SAM.gov into other portals.

Kohl’s – Kohls Technology

San Francisco, CA

Software Engineer Intern

June 2025 – August 2025

- Engineered a scalable high-performance backend for an ordering platform with RESTful API, leveraging Java Spring Boot, MongoDB, Google Cloud Spanner cloud databases, achieving 10% increase in responsiveness, 5% reduction in load times.
- Built logistics optimization algorithms using predictive modeling replacing SAS Optimization legacy system, boosting efficiency by 15%; analyzed feature adoption metrics using Qlik and BigQuery and presented insights to leadership.
- Developed intuitive frontend interfaces using Angular (TypeScript), enhancing Kohl’s order management; modernized CI/CD pipelines using Auto DevOps and container orchestration via Red Hat OpenShift (Kubernetes) accelerating deploys by 5%.

TransSIGHT – Data Consulting Firm

San Francisco, CA

Data Engineering and Machine Learning Intern

June 2024 – August 2024

- Built & deployed predictive machine learning transit-demand models (Random Forest, XGBoost; scikit-learn, PyTorch), raising forecast accuracy 20% and delivering concise visualizations for faster scheduling/budget decisions.
- Designed an automated end-to-end data pipeline using Apache Airflow, data from AWS S3/Lambda, and leveraged optimized SQL queries, cutting ETL time 30%, improving query performance 10%, and boosting deployment efficiency 15%

RESEARCH EXPERIENCE

BASF – Agricultural Chemical Solutions

West Lafayette, IN

Machine Learning Research Intern

August 2023 – May 2024

- Developed statistical models and predictive analytics using Python, scikit-learn, XGBoost, and Tableau, enhancing competitor market-share estimation accuracy by 15%, and delivering actionable benchmarking insights to senior management.

PROJECTS

Agentic AI Workflow

- Engineered an agentic Web Search + Retrieval-Augmented Generation (RAG) system on Nvidia NIM (Llama-3.1-8B) using AIQ Toolkit, LangGraph (ReAct/tool-calling), and LangChain; registered a custom Tavily Internet Search Tool and a local-filesystem RAG pipeline (document chunking, embeddings, vector search via FAISS) to deliver fast multi sourced answers to user requests.
- Productionized the agent as a FastAPI + LangGraph microservice (MCP-compatible) with Redis caching, request dedup, and streaming

Local LLM

- Built and deployed a local LLM by fine-tuning a T5 Seq2Seq model on Q&A using Hugging Face Transformers and PyTorch; evaluated with ROUGE metrics, optimized via BitsAndBytes 8-bit quantization, benchmarked latency with custom scripts; served with a secured FastAPI.

Pantry Tracker App

- Built a responsive web app using React and Next.js for real-time pantry item tracking; implemented secure user authentication via Firebase and automated item addition using computer vision with OpenCV.

C++ Shell Implementation

- Implemented a custom Unix-like shell in C++ utilizing Lex and Yacc for command parsing, featuring piping, I/O redirection, background execution, command and process substitution, built-in commands, and robust signal handling with resource management.