

# Akshar Raikanti

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## EDUCATION

### Purdue University

*B.S., Computer Science*

*B.S., Artificial Intelligence*

West Lafayette, IN

December 2026

GPA: 3.58

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

**Skills:** Python, Java, C, C++, C#, SQL, R, JavaScript, Relational Databases, NoSQL Databases, Machine Learning, Artificial Intelligence, Computer Vision, CI/CD Pipelines, Google Cloud (GCP), AWS, OpenShift Containers, Jira, Apache, Confluence, Git, Nvidia AIQ

## PROFESSIONAL EXPERIENCE

### Kohl's – Kohls Technology

*Software Engineer Intern*

San Francisco, CA

June 2025 – August 2025

- Engineered a scalable backend for a merchant ordering platform with RESTful API, leveraging Java (Spring Boot), MongoDB and Google Cloud Spanner databases, achieving a 10% increase in responsiveness and a 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 vendor order management, improving inventory tracking, vendor communication, and order accuracy.
- Modernized legacy CI/CD pipelines using GitLab Auto DevOps and container orchestration via Red Hat OpenShift (Kubernetes), accelerating deployments by 10% and improving system reliability; utilized Agile sprint planning and test-driven development for high-quality delivery.

### Veygo Rentals – Car Rental Service

*Full Stack Developer*

West Lafayette, IN

August 2024 – May 2025

- Developed a responsive web application with React, JavaScript, Tailwind, and Bootstrap, providing Purdue students an intuitive rental experience.
- Engineered backend services in Node.js and Python, integrating Stripe for secure payments and Firebase Authentication for user management.
- Implemented real-time inventory tracking, automated confirmations, and multi-level user access, streamlining operations.

### TransSIGHT – Data Consulting Firm

*Data Engineering and Machine Learning Intern*

San Francisco, CA

June 2024 – August 2024

- Built predictive machine learning models (Random Forest, XGBoost) using scikit-learn and PyTorch, increasing transit demand forecasting accuracy by 20%.
- Leveraged AWS (S3, Lambda) for scalable processing, optimized complex SQL queries enhancing database performance by 10%, and created detailed visualizations for actionable insights.
- Developed an automated end-to-end data pipeline using Apache Airflow, achieving a 30% reduction in ETL processing time, and managed Docker environments, resulting in a 15% improvement in deployment efficiency.

## PROJECTS

### C++ Shell Implementation

April 2025

- 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.

### Custom C Compiler to x86-64 Assembly Implementation

December 2024

- Designed a compiler using Lex and Yacc for lexical analysis and parsing, implemented precise register allocation, and generated optimized x86-64 assembly code from source programs.

### Pantry Tracker App

July 2024

- 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.

### Machine Learning Assisted Professor Tracking App

September 2024

- Developed a recommendation platform leveraging Retrieval-Augmented Generation (RAG) with Pinecone Vector Database, Llama 3.1 (Groq AI), and sentiment analysis techniques, enabling students to select classes based on professor reviews; implemented a weighted recommendation system for personalized professor suggestions.

### AI Flashcard App

September 2024

- Engineered an adaptive study platform integrating Llama 3.1 AI-generated content, adaptive learning algorithms to personalize flashcard difficulty, and secure user management with Clerk; enabled subscription payments using Stripe API.