Akshar Raikanti

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EDUCATION

Purdue University **West Lafayette, IN**
Bachelor of Science, Computer Science **August 2023 – May 2026**
Bachelor of Science, Artificial Intelligence

- **Cumulative GPA: 3.65**

SKILLS

- Programming Langauges: Python, Java, C, C++, C#, SQL, R
- Front End Development: React, React Native, JavaScript, CSS, Bootstrap, Tailwind, Next.js, Figma, Canva, Web Development
- Back End Developemnt: Node.js, Java, API Integration, Google Firebase (Authentication + Database), AWS (S3, MWAA, IAM), Microsoft SQL Server, Stripe API, Docker, Clerk API, Pinecone API, Groq AI API, App Development, Software Engineering, Vercel, Llama 3.1, Open AI
- Data Science & Machine Learning: Pytorch, TensorFlow, Scikit-learn, Pandas, SQLAlchemy, PyODBC, Matplotlib, Seaborn, Apache Airflow, Microsoft Azure, Amazon Redshift, Data Analysis, Data Cleaning, Machine Learning, Reinforcement Learning, Artificial Intelligence, Natural Language Processing (NLP), Statistical Modeling/Statistics, R, RAG (Retrieval-Augmented Generation), NoSQL (MongoDB), Apache Spark
- Tools: Microsoft Power BI, AWS, Microsoft Azure, Google Firebase, PyTest, Docker, Vercel, Kubernetes, Terraform, Git
- Methodologies: Agile Methodology, Scrum Methodology, Project Management, Market Research, User Experience

PROFESSIONAL EXPERIENCE

Veygo Rentals – Car Rental Service **West Lafayette, IN**
Full Stack Developer **August 2024 – Present**

- Led the development and maintenance of the Veygo Rentals website using React, JavaScript, CSS, Bootstrap, and Tailwind, creating a responsive, user-friendly interface for Purdue University students. Implemented real-time inventory tracking, automated booking confirmations, and multi-tiered user access controls. Built a robust back-end with Node.js and Python, integrating Stripe API for secure payments, and utilized Firebase Authentication for user account management.

Headstarter AI **San Francisco, CA**
Software Engineering Fellow **July 2024 – September 2024**

- Built AI-driven apps for startups, addressed backlog projects, optimized ML models, enhanced UI designs, collaborated with cross-functional teams, and contributed to code reviews.

TransSIGHT – Data Consulting Firm **San Francisco, CA**
Data Engineering and Machine Learning Intern **June 2024 – August 2024**

- Developed an end-to-end data pipeline using Apache Airflow, automating data ingestion, transformation, and loading into SQL Server. Managed Docker containers to ensure consistent environments, improving deployment speed. Applied ML models to predict transit demand, improving accuracy. Configured AWS services (S3, MWAA) for scalable, secure data processing. Performed complex SQL queries, and optimized database performance. Created data visualizations for insights and monitoring key metrics.

BASF – Agricultural Chemical Solutions **West Lafayette, IN**
Machine Learning Research Intern **August 2023 – May 2024**

- Deliver a statistical approach to approximating competitive market share down at a more granular level. Then leverage such output to compute benchmarking analytics for quantifying the accessible market opportunity relative to our competitors.

PROJECTS

Pantry Tracker App **July 2024**

- Created with React and Next.js for real-time data tracking of pantry items. Used Vercel to deploy application. Implemented user authentication and authorization using Firebase Authentication to ensure secure access to each user's data. Implemented a camera system to link items with images and using OpenAI image classifcation tools, automatically detected the objects in the image to add to the list of items.

AI Customer Support System **August 2024**

- Engineered a sophisticated AI-driven customer support system utilizing Llama 3.1, Groq AI, Next.js, and AWS, enabling automated, adaptive responses to a wide range of customer inquiries. The system integrates with multiple APIs to enhance functionality and dynamically adjusts to various prompts and inputs, effectively routing specific queries to appropriate services.

AI Flashcard App **September 2024**

- Designed an app with Stripe API payments and Llama 3.1 content to help users study efficiently. Used Firebase and Clerk to store user specific information and authentication. Integrated adaptive learning algorithms to customize flashcard difficulty based on user performance and learning speed.

Machine Learning Assisted Professor Tracking App **September 2024**

- Developed an app using RAG using Pinecone, Llama 3.1 through Groq AI, and Vectors to help students choose classes based on professors' past reviews. Devised a weighted review system through Pinecone to recommend professors to students. Utilized sentiment analysis techniques to provide deeper insights into professor reviews, helping students make more informed decisions.