

HANIYA AHMAD KHAN

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Education

Augustana College

Bachelor of Science in Computer Science and Data Science

Rock Island, Illinois

Anticipated Graduation May 2027

Relevant Coursework

- Problem Solving with Python
- Data Structures
- Space Time Complexity
- Data Analysis
- Business Intelligence
- Predictive Analytics
- Prescriptive Analytics
- Data Mining
- Object-Oriented Programming

Technical Skills

Languages: Python, C, Java, SQL, HTML, CSS, JavaScript, Next.js, React

Developer Tools: VS Code, Eclipse, Spreadsheet software, Firebase, GCP, Vercel, OpenAI

Projects

AI Customer Support Chatbot | OpenAI, Vercel, Streaming, Pinecone, AWS EC2, AWS Bedrock API August 2024

- Built an AI-powered customer support chatbot using Next.js and the OpenAI API.
- Developed a chatbot with hard-coded responses and progressively added intelligent response features using Gen-AI models.
- Deployed the web application on AWS EC2 Servers, ensuring reliable and scalable hosting.
- Implemented advanced functionalities such as Retrieval-Augmented Generation (RAG) for knowledge-based responses and LLM orchestration patterns.
- Enhanced the chatbot with multi-language support, user authentication, and a feedback mechanism for a personalized user experience.
- Collaborated with a team to deliver the project, presented through a video, and deployed the application with CI/CD pipelines on Vercel.

Pantry Tracker | Next.js, React, Firebase, GCP, Vercel, OpenAI

July 2024

- Developed a pantry management application to track items by adding, removing, and updating their quantities.
- Utilized Next.js for the frontend framework and Material UI for UI components, ensuring a responsive and user-friendly interface.
- Implemented Firebase as the backend service for real-time data storage and management.
- Deployed the application on Vercel and incorporated CI/CD pipelines for efficient updates and maintenance.
- Integrated OpenAI for advanced features such as recipe suggestions based on pantry contents.
- Explored bonus features including image classification with GPT Vision API and GCP Vertex AI, enhancing functionality and user experience.

Tic Tac Toe Game | Python

June 2024

- Developed a command-line Tic Tac Toe game using Python, enhancing user interaction with a colored board representation.
- Implemented game logic to handle turns, input validation, and win/draw conditions, ensuring a smooth and bug-free gaming experience.
- Incorporated input validation to ensure players only make valid moves, improving overall game stability and user experience.
- Designed the game to allow users to restart the match, providing flexibility and enhancing replay value.

Experience

Headstarter Software Engineering Fellow

July 2024

Project Management

- Built 5 AI projects in 5 weeks, each shipped to 1000 users.
- Participated in hackathons and in-person meetups, fostering a strong network and teamwork skills.
- Focused on vision, personal branding, networking, project management, and teamwork development.

Entrepreneurial Development Center

May 2024

Intern

- Created web page designs using HTML/CSS and JavaScript.
- Designed website architecture and user interface with a focus on user experience optimization.

WAUG Radio Software Developer

January 2024

JavaScript, GitHub

- Orchestrated seamless integration of new software modules within the WAUG Radio system, ensuring compatibility and maintaining system stability.

- Employed advanced debugging techniques in JavaScript, utilizing tools like Chrome DevTools, to swiftly diagnose and rectify code errors.
- Engineered JavaScript algorithms for real-time transcription of broadcast content onto Betabrite LED displays, optimizing for accuracy and display performance.
- Designed and implemented automation scripts in JavaScript to streamline operations and enhance user experience, integrating seamlessly with the WAUG Radio interface.