

# AKSHAY GOKHALE

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## Education

### University of Wisconsin - Madison

*B.S. Information Science, Minor in Computer Science*

*Completed 2 years of Mechanical Engineering coursework (2019-2021)*

**May 2024**

*Madison, WI*

## Technical Skills

**Languages:** Java, Python, R, SQL, JavaScript, HTML, CSS, C#

**Developer Tools:** VS Code, Eclipse, Google Cloud Platform, Microsoft Office, APIs, Tableau

**Technologies/Frameworks:** Linux, GitHub, JUnit, Nightwatch, Node.js, Jupyter, Pandas, NumPy

**CAD Software:** Solidworks

## Experience

### KX - Vector Database & Analytics Engine Technology

**June 2023 – September 2023**

*QA Engineer Intern*

*Dublin, IE*

- Utilized Nightwatch and Node.js to streamline the translation of legacy Nightwatch tests to optimize the testing and debugging processes for data analytics applications.
- Employed JavaScript, and learned the company-developed language Q to conduct front-end testing on the KX vector database platform to enhance the quality and reliability of the data analytics tool's user interface.

### Datairis - AI-Based Data Access Technology

**June 2023 – August 2023**

*Software Research Intern*

*Palo Alto, CA*

- Assessed the effectiveness of Large Language Models in translating diverse natural language queries into SQL by leveraging the TPC-DS dataset and Google's BigQuery data warehouse.
- Experimented with prompts of varying detail to evaluate the accuracy and performance of AI-generated SQL queries, and analyze how LLMs translate natural language queries to code.

### Pulsora - Solutions For ESG & Sustainability Performance

**June 2022 – September 2022**

*Software Engineer Intern*

*San Francisco, CA*

- Developed code for extracting data from customer files, including CSV, Excel, and JSON formats, enhancing data compatibility for the UI.
- Played an important role in quality assurance by utilizing extracted data to test the UI platform, ensuring robust functionality and accuracy in displaying calculated ESG metrics.
- Facilitated communication with offshore team members by identifying and articulating key issues.

## Projects

### AI Story Generator

**July 2024**

- Developed web application using Flask and OpenAI's GPT-3.5 API for generating stories based on user prompts.
- Designed responsive user interface with HTML and CSS, enhancing accessibility.
- Gained experience in integrating and managing third-party APIs, web development with Flask, and implementing secure coding practices.
- Improved skills in debugging and troubleshooting issues related to API usage and environment variable management.

### Weather Automation Tool

**December 2023**

- Developed Java application using OpenWeatherMap API for real-time weather data retrieval.
- Employed JavaFX for user-friendly interface, enhancing data visualization and user interaction.
- Advanced Java skills in API integration, data parsing, and GUI development, enhancing automation and user experience.

## Leadership / Extracurricular

### Sigma Pi Fraternity Executive Board

**January 2023 – December 2023**

*First Counselor*

*University of Wisconsin - Madison*

- Counselor (Risk Manager) responsible for ensuring members' well-being, orchestrating philanthropy events, and communicating with the university.

### Music Production

**Spring 2019 – Present**

*Producer*

*University of Wisconsin - Madison*

- Music producer for diverse artists; have had my work featured in live performances on university stages.
- Lived in the university's learning community 'The Studio', communicating and collaborating with young artists.