

Rishaan Kumar

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EDUCATION

- **University of Wisconsin-Madison** Madison, WI
B.S. Computer Science + B.S. Communication Arts (Radio-TV-Film) *August 2022 - May 2026*
 - GPA: 3.88/4.00
 - **Courses:** Data Structures and Algorithms, Artificial Intelligence, Operating Systems, Computer Organization, User Interfaces, Object Oriented Programming, Data Visualization, Linear Algebra, Calculus, Discrete Math.

EXPERIENCE

- **DuploCloud** San Jose, CA
Software Engineer Intern *May 2024 - August 2024*
 - Developed an automated newsletter that integrated the **SalesForce, Domo, and internal APIs** to create distinct visualizations using **seaborn** and **matplotlib** and unique insights tailored to each customer's AWS data. Actively being used for customer acquisition.
 - Created a **RESTful Flask API** that helped customers compare costs of competitors and returned a customized spreadsheet using **Pandas**. Helped customers **save up to 50%** of their monthly bill.
 - Redesigned an Automated Documentation Bot that used the **Slack API** to analyze conversations with **Claude 3.5 Sonnet** to automatically update the public documentation. Currently improving DuploCloud's documentation every day.
 - Developed a **Zoom Mining tool** that took Zoom recordings and created minutes of the meeting in **markdown**. Implemented **OpenAI's Whisper** for speech recognition. Currently used to summarize weekly internal meetings.
 - Every project is deployed on DuploCloud's internal network using **Docker**.

HIGHLIGHTED PROJECTS

- **TrackTheSpot - User-Centric Spotify Data Visualization App**
 - Developed a functional web application that tracks users' Spotify data to give them a report of their top artists and songs during different time frames.
 - Integrated the **Spotify API** in **ReactJS (TypeScript, HTML, Bootstrap)** to authenticate account information and retrieve personalized song and artist data before processing the information using **JSON parsing algorithms**.
 - Utilized **OpenAI's ChatGPT API** to give personalized recommendations by using the users' recent listening history as the data set for the LLM.
- **Lake Mendota Ice Analysis - Predictive Climate Modeling Using Linear Regression**
 - Built a **Python-based machine learning pipeline** to analyze over 150 years of historical climate data, predicting ice coverage on Lake Mendota.
 - Preprocessed datasets to improve **linear regression** model accuracy, optimizing **gradient descent** performance.
 - Achieved predictions **within 0.01** of the closed-form solution and visualized trends and insights with **Matplotlib**.
- **Covid-O-Grapher - Real-Time Worldwide COVID-19 Stat Dashboard**
 - Implemented a front-end dashboard using **ReactJS (JavaScript, HTML, CSS)**, and the **disease.sh API** to retrieve data and calculate statistics like New Cases, Total Cases and Total Deaths for each country.
 - Used **Charts.js** that let users interactively view and toggle data visualizations.
- **Python-Protect - Cipher-Based Password Manager**
 - Developed a **Password Manager** using **Python** that uses a cipher to encrypt passwords to avoid plain text storage.
 - Encrypted passwords were stored in a **CSV file** formatted for maximum efficiency.
 - Enhanced user cybersecurity by providing a secure and convenient solution for centralizing the storage of various online accounts.

LEADERSHIP

- **WSUM 91.7FM** Madison, WI
Radio Show Host *January 2023 – Present*
 - Hosts a weekly radio show during prime time on FM that averages **over 5,000 monthly listeners**.
 - Worked with university departments and student organizations to secure guest speakers.
 - Introduced live audience call segments, contributing to a **70% growth** in interaction and community engagement.

SKILLS

Languages: Python, Java, C, JavaScript, Bash, HTML/CSS, SQL, TypeScript

Frameworks: ReactJS, React Native, Flask, Pandas, Selenium, Matplotlib, PyTorch, AWS SDK (Boto3), Node.js, Bootstrap

Tools: Git, Linux, Docker, JUnit, Postman