

# KARAN KUMAR RAVELLA

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**Portfolio:** [KaranKumarRavella.github.io](https://KaranKumarRavella.github.io)

## Professional Summary:

- With over 2+ years of experience as a Database Administrator and Production Support Specialist, I have demonstrated expertise in the design, development, implementation, testing, and support of multiple database systems.
- My capabilities include identifying and resolving performance issues related to complex queries, implementing efficient optimizations, and troubleshooting end-to-end data flow for ongoing production operations.
- I possess good proficiency in Python programming, leveraging it for data analysis, scripting, and automation.
- I have developed and implemented Python scripts for data manipulation and cleaning, utilizing libraries such as Pandas, NumPy, and Matplotlib.
- In the realm of software development, I am well-versed in both C and C++. I have successfully developed and maintained software applications using these languages, demonstrating a strong understanding of data structures and algorithms.
- My experience includes debugging, testing, and optimizing code for optimal performance, ensuring the delivery of high-quality software solutions.
- My adeptness in client-facing roles is complemented by effective communication skills across various organizational levels. I have successfully implemented and managed projects using Agile methodologies, ensuring alignment with project goals and timely delivery of solutions.
- Developed interactive Power BI dashboards to visualize key performance indicators (KPIs) and trends for business stakeholders.
- Designed and implemented ETL pipelines using tools such as Microsoft SQL Server Integration Services (SSIS) and Python.

## Technical Skills:

Programming Languages	C, C#, Python, Linux Shell Scripting, SQL
Developer Tools	Tableau, Oracle enterprise manager, SQL server management studio, Data Visualization with Power BI, Oracle SQL Developer, MySQL Workbench, DBeaver, Microsoft Office Suite, Selenium, Serenity, Junit, Cucumber, ETL Processes, Hadoop.
Databases	Oracle, MySQL, SQL Server
Operating Systems	Windows, Mac OS, LINUX
Methodologies	Agile, Cybersecurity Framework (CSF), Networking, Security
Others Software Skills/tools used	GitHub, AWS, SailPoint, ServiceNow, MS excel, MS Office, Notepad++, Digital Literacy, Instructional Design.

## Professional Experience:

### Data Administrator

Tora Industries, Telangana, India

#### Responsibilities:

- Created, optimized, and maintained SQL queries that supported application functionality and operational activities.
- Assisted the development team in designing, developing, testing, performance tuning, and implementing database applications.
- Effectively communicated and collaborated with other groups to coordinate successful design, development, and testing efforts for assigned application components.
- Assisted developers with database activities and conducted database performance tuning.
- Worked with complex data models and object-relational database mapping, while generating complex reports.
- Participated in technology design meetings, offering recommendations for system and data improvements to designers, while adhering to all IT control policies.

### Graduate Assistant,

Jackson State University, Mississippi, USA

#### Responsibilities:

- Worked as a Graduate Assistant at the JSU Center for Innovation, Division of Research and Economic Development, Jackson State University, starting June 2023.
- Assisted in 3D modelling and Virtual Reality (VR) to support the development and enhancement of immersive educational experiences.
- The successful candidate collaborated with faculty and students to create engaging VR content and 3D models for educational purposes, contributing to innovative teaching and research initiatives within the university.
- Gained experience in 3D modelling and Virtual Reality (VR) to support the development and enhancement of immersive educational experiences.
- Led workshops and training sessions on the use of 3D modelling software and VR technologies for students and faculty, enhancing digital literacy and fostering an environment of technological innovation across campus.
- Managed and maintained VR equipment and software, ensuring all resources were up-to-date and fully functional for educational use, while also providing technical support to users experiencing challenges.

**Graduate Research Assistant,  
Jackson State University, Mississippi, USA**

**Responsibilities:**

- Worked on Data entry and verification. Arrange data into tables, charts, and graphs and develop statistical reports. Assist in fulfilling ad hoc data requests and create interactive and linked Tableau dashboards.
- Data Quality Assurance implemented quality assurance checks to ensure the accuracy and reliability of data. Regularly audit data sources and resolve discrepancies.
- Experience in database design, normalization, and optimization.
- Familiarity with database management systems such as MySQL, PostgreSQL, or Oracle.
- Skilled in creating and modifying database structures, tables, and views.
- Implemented data integrity and security measures within databases.
- Strong proficiency in Python programming for data analysis, scripting, and automation.
- Developed and implemented Python scripts for data manipulation and cleaning.
- Experience with popular Python libraries such as Pandas, NumPy, and Matplotlib for data analysis and visualization. Applied Python in various projects for web scraping, data extraction, and transformation.
- Familiarity with data science libraries and frameworks like TensorFlow and sci-kit-learn.
- Proficient in creating interactive and visually appealing dashboards using Tableau.
- Experience in data visualization and analysis to derive meaningful insights.
- Designed and developed Tableau reports for presenting complex data in a comprehensible format.
- Used Tableau for storytelling through data to support business decision-making.
- Maintain comprehensive documentation for data sources, cleaning processes, and transformations.

**Projects:**

- Worked on a Mini project entitled "ONLINE DATABASE VOTING SYSTEM" in State Election Commission, Hyderabad.
- Worked as a Graduate Assistant at the JSU Center for Innovation, Division of Research and Economic Development, Jackson State University, starting June 2023.
- Developed and maintained robust test automation frameworks using industry-leading tools such as Selenium and JUnit, significantly reducing manual testing efforts.

**Achievements:**

Awarded stipend for participation in the JSU Center for Innovation's Young Innovators Summer Program.

**Education:**

Education	Percentage	Year	Institution
Master’s in Computer Science	3.80 / 4	2023	Jackson State University, MS, United States
Bachelor’s in Computer Science	5.80 / 10	2021	Vardhaman College Of Engineering (JNTU Hyderabad)

**Personal Details:**

Date of Birth: June 7th 1998

Languages Known: English, Telugu, Hindi

**Declaration:**

I hereby declare that all the details given above are true to the best of my knowledge.

Karan Kumar Ravella