Rijul Bir Singh

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Education

University of Florida, Gainesville, USA

Aug 2024 – May 2026

Master of Science in Computer Science

Delhi Technological University, Delhi, India

Aug 2017 – May 2021

Bachelor of Engineering in Software Engineering

Skills

Languages: SQL (advanced), Python, Java, Go, C/C++, JavaScript, Pandas, NumPy, HTML, CSS Data Engineering: ETL Pipeline Design, Data Modeling, Apache Airflow, Database Optimization Databases & Storage: PostgreSQL, MySQL, MS SQL Server, MongoDB, Snowflake, Data Warehousing

BI & Analytics: PowerBI, IBM Cognos, Tableau, Data Visualization, Statistical Analysis

Cloud & Tools: AWS, Azure, AEM, Docker, Git, CI/CD Pipelines, Django

Experience

Technical Consultant | Adobe

Apr 2023 – Jul 2024

Customer Engineering Cloud Solutions Platform Engineering

- Developed and tested hotfixes for Adobe Experience Manager (AEM), resolving 10–15 critical issues per release cycle, including **thread leaks** and **Oak indexing failures**; analyzed thread and heap dumps to troubleshoot performance and security issues impacting over **100** enterprise clients.
- Developed features using JCR and OSGi components for AEM's Multi-Site Manager and translation tools, improving experience for 1M+ users with increased functionality.
- Reduced unresolved customer issues by 82% through detailed bug validation, significantly boosting product reliability and user satisfaction.

Software Development Engineer | Optum, United Health Group Data Engineering, Data Transformation, Business Intelligence

Jun 2021 – Apr 2023

- Designed and scheduled ETL workflows using **Apache Airflow**, automating the movement of structured claims and provider data into a centralized reporting DB, which improved data freshness and reduced pipeline **failures by 30%**.
- Built and maintained Power BI dashboards to track provider performance and patient engagement metrics, reducing manual reporting effort by 35% and improving turnaround time from 1 day to 4 hours.
- Created P&L reports and dashboards using **PowerBI** and **Cognos**, translating financial metrics into actionable insights.

Projects

OHBI: Optum Health BI | PowerBI, Python, SQL, Snowflake

Jul 2021 - May 2022

- Built a data pipeline extracting financial data from **multiple sources**, transforming it using **SQL** in **Snowflake**, and loading it into a **dimensional model**.
- Created interactive **Power BI** dashboards with **drill-down capabilities** and **custom DAX measures** for real-time provider performance visibility.

Campus Cupid | React, Node.js, MongoDB, Express [GitHub]

Feb 2023 - Apr 2023

- Built a full-stack dating app using the MERN stack, implementing secure authentication, profile management, and a matching algorithm.
- Created a **responsive UI** with React and implemented **RESTful APIs** enabling real-time notifications with 95% uptime.

Emotion-Based Music Recommender | Python, CV, ML [GitHub]

Mar 2025

- Built a real-time emotion detection system using OpenCV and TensorFlow that analyzes facial expressions and recommends Spotify playlists matching the user's mood.
- Trained a CNN on the FER2013 dataset to classify 7 emotions and integrated with Spotify API to fetch relevant playlists.

Publications and Certifications

Adobe Experience Manager Business Practitioner Professional Certification

Jan 2023

Movie genres and beyond: Analytical survey of classification techniques

Int'l Conference on Trends in Electronics and Informatics (IEEE) [IEEE]

Jun 2021

- First-authored a paper implementing **Bi-directional LSTMs and CNNs** to classify movies from posters and trailers using the **IMDB Dataset (50K samples)**.
- Evaluated resNet50, VGG16, and DenseNet169 models, with DenseNet169 achieving 91% accuracy.