

Rahul Sharma

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Employment Objective:

Software engineer with expertise in distributed systems, scalable architectures, and cloud computing. Passionate about developing scalable cloud-based AI solutions, enhancing system efficiency, and delivering user-centric innovations through distributed computing.

Education:

University of California Riverside (Master's Computer Science)

(Riverside, CA) June 2024

Amity University (Bachelor's Computer Science)

(Uttar Pradesh, India) June 2021

Certifications:

- Certified in **Advanced Data Analytics** course from Google.
- Certified in **Advance Machine Learning** course from Google.
- Certified in Data Science Bootcamp course from Career 365.

September 2024
August 2024
June 2021

Technical Skills:

- **Programming Languages:** Python, Java, JavaScript, SQL, C++, Bash
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, SageMaker), Azure, GCP (BigQuery), Kubernetes, Docker, Jenkins, GitHub Actions, CI/CD Pipelines
- **Backend & Distributed Systems:** Spark, Hadoop, Databricks, Microservices, REST APIs
- **Machine Learning & AI:** TensorFlow, PyTorch, XGBoost, Hugging Face, Scikit-learn
- **Optimization & Algorithms:** Linear/Nonlinear Programming, Resource Allocation Algorithms
- **Web Development:** Flask, Node.js, React.js, Material-UIs
- **Data & Visualization:** PostgreSQL, Power BI, Tableau, Matplotlib, Seaborn

Professional Experience:

▪ Tech Elevate | Web Developer (Liberty Township, Ohio)

September 2024 – Present

- Designed and delivered Python programming courses to 50+ students, improving test scores by 30%, while fostering project-based practical skills (OOP, ML, Web Development).
- Designed and modified websites using Node.js, CSS, TypeScript, and HTML, boosting engagement by 25%.
- Designed interactive dashboards for real-time data visualization, improving analytics and decision-making processes by 35%.
- Directed team efforts to enhance webpages such as the project galleries, senior literacy page, and "Get Involved" section, resulting in a 40% increase in student participation and streamlined user interactions.

- **Tech Elevate Employee of the Month** for leading a web development team to boost user engagement and participation by 40% through impactful website redesigns. Also, acknowledged for contributing to designing Python programming for students.

December 2024

▪ Cloudreach Technology | Software Engineer (Dallas, Texas)

July 2024 – September 2024

- Designed and deployed scalable ML pipelines on AWS using EC2 for computers, S3 for storage, and SageMaker for model training. Improved deployment time by 15% while leveraging Lambda for serverless data preprocessing and CloudWatch for monitoring.
- Partnered with data scientists to seamlessly integrate ML algorithms into cloud-based architectures, enhancing system scalability and reliability.
- Optimized databases and pipelines, boosting data throughput by 20%.

▪ Feynn Labs | Machine Learning Research Engineer (Guwahati, India)

December 2021 - April 2022

- Developed marketing segmentation and lead a team analyzing COVID-19 impact on Australia's tourism and health care sector, processing 60K+ records and improving market prediction accuracy by 15%.
- Developed ERP-focused ML solutions, optimizing pricing models and efficiency by 10%.
- Presented complex ML insights to non-technical stakeholders, streamlining decision-making processes.

▪ Kyrion Technologies | Data Science Intern (Delhi, India)

April 2020 - June 2020

- Collaborated with a team of data scientists to develop machine learning models (e.g., Titanic Predictions) using Python, achieving a 12% improvement in model accuracy.
- Preprocessed 3K+ data points, optimizing feature selection using Matplotlib and Seaborn for better model performance.

▪ Lg Electronics | Software Developer Intern (Greater Noida, India)

May 2019 - June 2019

- Developed an Advance Security Management System along with team by using eclipse platform.
- Core Java, servlet, appellate, JSP and HTML were used to design both GUI and webpage interface of the system which resulted in enhancing user interaction for managers by 20%.
- Worked alongside security teams to manage 1,500+ entries of employees and visitors using MySQL, enhancing database management efficiency.

PROJECTS

▪ Generative AI Text Summarization Tool

November 2024

- Designed a text summarization tool using OpenAI GPT models with Retrieval-Augmented Generation (RAG), improving knowledge retrieval by 25%.
- Integrated GenAI prompt engineering to enhance knowledge retrieval accuracy.
- Integrated GenAI pipelines with AWS services, leveraging S3 for data storage and Lambda for serverless architecture, reducing latency by 20%.
- Technologies used: Flask, OpenAI GPT, AWS.

▪ Credit Risk Analyst

October 2024

- Built 300K+ transaction data to detect fraud patterns and forecast credit risks, increasing detection rates by 15%.
- Built predictive models using Python and applied stress-testing techniques to assess financial risks.
- Created interactive dashboards with Tableau to communicate insights to stakeholders.

▪ Movie Recommendation System

August 2024

- Created a personalized movie recommender system using Single Value Decomposition (SVD) to generate tailored recommendations based on user preferences, increasing in 20% accuracy.
- Developed frontend using Material- UI and Node.js, including designing the news section background, ranking list and review systems for the main webpage.
- Managed a PostgreSQL database containing a dataset of 30,000+ movie entries across diverse genres, curated from IMDb.
- Technologies used: Python, Material-UI, PostgreSQL, Node.js, PowerBI.

▪ Global Terrorism Prediction

June 2024

- Developed Global Terror Predictor using python (Jupyter Notebook) to analyze and predict the top 20 terror groups based on historical data (2003 – 2017).
- Implemented a Random Forest Classifier with 75% accuracy and visualized spatial trends using Folium and Tableau.
- Technologies used: Python, Pandas, Matplotlib, Seaborn, Folium, Tableau.

Soft Skills

▪ Problem Solving & Analytical Thinking

- Debugging, optimizing performance, solving complex issues.

▪ Critical Thinking

- Assessed complex situations, formulated data-driven decisions, and optimized solutions to enhance efficiency.

▪ Adaptability

- Rapidly adopting new technologies (AWS, ML frameworks).

▪ Leadership

- Leading development teams, mentoring peers.

▪ Communication & Time Management

- Translating technical concepts into actionable insights & Delivering high-quality work within deadlines.