Ranjith Reddy Gaddam

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SUMMARY

Goal-oriented Software Engineer with a strong background in software development, data engineering, and cloud solutions. Skilled in optimizing data pipelines, enhancing system performance, and automating workflows to drive business outcomes.

EXPERIENCE

Deloitte Consulting LLP   **Dallas, TX**

Data Engineer (Clients: Meta, Elevance Health)   Oct 2023 – Present

- Developed 50+ data-driven marketing campaigns for Meta, optimizing audience targeting and segmentation through scalable data pipelines and personalized ads. Enhanced performance with advanced analytics and automation.
- Developed signals and created multiple data pipelines at Meta for various use cases, including Hive-to-Hive table data loads and GSheet-to-Hive table uploads, streamlining data integration processes and enhancing real-time analytics.
- Created various dashboards to analyze data using SQL and Unidash, enabling efficient monitoring and visualization of key data metrics. Improved data-driven decision-making by providing real-time insights of the marketing data.
- Developed robust Python-based backend systems on AWS for Elevance Health, effectively managing Oracle SQL and Snowflake databases to support mission-critical operations for over 45 million members.
- Created Glue ETL jobs to extract data from Snowflake databases and transform it into text files, loading them into S3. Automated S3-to-S3 transfers using Lambda functions for archival and seamless file transfer to clients.

FactSet Research Systems Inc   **Hyderabad, India**

Software Engineer   Feb 2021 – Dec 2021

- Collaborated in developing high-performance APIs for the Python-based 'Holiday Management' project, significantly optimizing response times to an average of 100 milliseconds, enhancing user experience and system efficiency.
- Developed and maintained 'Benchmark Editor', a Python tool used to analyze, transform, and store data in various formats. It also automates file storage to S3, ensuring data integrity and streamlining data workflows.
- Implemented a highly scalable job-queuing service using EC2 with Auto Scaling, optimizing resource utilization and minimizing costs. Integrated Amazon SQS for efficient process management and seamless workload distribution.
- Leveraged AWS Data Migration Service to transfer data from in-house PostgreSQL to AWS Aurora. Enhanced query performance through schema optimization and indexing, significantly improving overall system efficiency.
- Implemented Terraform for AWS infrastructure management, resulting in a 20% reduction in infrastructure costs. Utilized auto-scaling capabilities to optimize resource allocation, improving system responsiveness and cost-effectiveness.

PROJECTS

FeedHub (GitHub)   **Jul 2024 – Oct 2024**

- Developed a comprehensive social media application, FeedHub, using Python Flask, React, EC2, S3, and PostgreSQL featuring user feeds, authentication, group chats, media attachments, and rich text editing.
- Migrated to AWS, enhancing scalability with features like dark mode, pagination, and real-time notifications.

Bug Hound (GitHub)   **Jan 2023 – Apr 2023**

- Developed a bug tracking system using Spring Boot and React, enabling users to report, assign, and track bugs.
- Implemented user authentication and role-based access control, ensuring secure interactions within the application.

EDUCATION

California State University, Long Beach, CA   **May 2023**
Master of Science (M.S.) in Computer Science   *GPA: 4.0*

Chaitanya Bharathi Institute of Technology, Hyderabad, India   **June 2021**
Bachelor of Engineering (B.E.) in Information Technology   *GPA: 3.7*

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java, C++, Scala
- **Libraries:** React, Pandas, NumPy, PySpark
- **Databases:** MySQL, PostgreSQL, Oracle, Snowflake
- **Cloud Platforms:** AWS, Azure
- **Frameworks:** Flask, Django, Spring Boot
- **Tools and Technologies:** Docker, Git, Bitbucket, Jira, Informatica, Tableau, Control M, SSMS, Visual Studio

ACHIEVEMENTS

- Achieved a top 2% ranking (2726th out of 130,000) in the prestigious TSEAMCET exam.
- Ranked among the top 500 participants globally on LeetCode.