ATHIRA NIRMAL

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PROFESSIONAL EXPERIENCE

ConsultAdd   Jun 2023 - Dec 2023
Software Developer
- Constructed an end-to-end **ETL** pipeline from **AWS S3** to **Snowflake Data Warehouse**, resulting in a 10% increase in data processing speed, executed over 1,000 **MySQL** database queries and python scripts to automatically checkout the code from **Git**
- Architected a serverless web application using **AWS Amplify** achieving a 50% reduction in page load time
- Streamlined user authentication and authorization by integrating Amazon Cognito user pool into the serverless web application
- Utilized distributed computing frameworks such as **Apache Spark** to manage large-scale data processing tasks, enhancing performance and resource utilization by 15%.

IBM   Sep 2017 - Jul 2021
Software Developer (Client: Airbus)
- Integrated entire frontend/backend modules using **Python** with over 10,000 lines of code for the client Airbus
- Updated a **Tableau** dashboard that tracks user adoption of new features, resulting in a 25% increase in user adoption
- Engineered various ETL flows and data processing tasks using **Informatica PowerCenter**, with a total of 100TB of data processed
- Accomplished tasks such as reading data from external sources, merge data, perform data enrichment and load in to target data destinations while shaped DAGs to run the **Airflow**
- Generated a **Lambda** Deployment function which processed over 100,000 events per day, with an average latency of 10 milliseconds
- Directed a 6-member team while providing support to L2 team in troubleshooting and resolved over 500 issues

Associate Developer (Client: ANZ Bank)
- Experience in developing micro services in IIB using **ESQL** and **Java**, connecting different applications and system architecture
- Contributed with cross-functional teams to prioritize business requirements, resulting in a 15% increase in customer satisfaction
- Devised test scenarios for **smoke suit** , **regression sui**t and performed **unit testing** using **RFHUtil** with a 95% pass rate
- Assisted in the Software Development Life Cycle, worked on **Agile** methodology, including 100+ code reviews

TECHNICAL SKILLS

Programming Languages: Python**,** C/C++, Java, ESQL, Bash Script, JavaScript, Haskell, HTML, CSS
Data Engineering Skills: Airflow, PySpark, Kafka, Snowflake,Informatica PowerCenter, Tableau, Power BI
Database: NoSQL: MongoDB, MongoDb Atlas, Robo 3T **RDBMS**: SQL, MySql, PL-SQL, Oracle, DBeaver, Redis,PostgreSQL
Cloud Technologies & Version Control: Docker, AWS, Azure, Git, GitHub, Bitbucket
Software & Libraries: Anaconda, PyCharm, IBM Integration Bus, WebSphere MQ, Linux/Unix,Selenium,Flask, JIRA, Jenkins

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering   **Binghamton, NY**
Master of Science in Computer Science | **GPA : 3.60/4.00**   May 2023
University of Kerala   **India, Kerala**
Bachelor of Technology in Computer Science and Engineering | **GPA: 3.5/4.0**   Aug 2018

CERTIFICATIONS AND ACADEMIC PROJECTS

Certifications
- AWS Cloud Technical Essentials by Coursera, SQL by HackerRank, Python for Data Science by IBM

Data Science | ETL on YouTube trending video data using AWS Services   Aug 2023 - Sep 2023
- Employed AWS services to streamline the ingestion and transformation of Kaggle's Trending YouTube Video Statistics data, has achieved a 40% improvement in data processing time

Application Development | **Automated Application filling**   Aug 2023 - Sep 2023
- Created an application that automates the process of filling out application forms, saving users an average of 30 minutes per form

The Research Foundation, SUNY | Research Assistant   Jan 2022 - Nov 2022
- Designed a high-performance Type 2 hypervisor, VM migration, and 92% copy overhead reduction using lseek instead of memcpy

Data Science | **Web Scraping - Election result prediction**   Aug 2022 - Oct 2022
- Scraped 778880 election-related posts from 4Chan API, conducted sentiment analysis, predicted the election results, and built a web-based UI with Redis caching, increasing the fetching speed by ~2x

Database Systems | **Student Registration System**   Mar 2022 - May 2022
- Implemented a student registration system, optimized database performance by fine-tuning SQL queries and indexing strategies, reducing query execution time by 40%

LEADERSHIP EXPERIENCE

Graduate Student Organization (GSO) , Binghamton University   **Binghamton, NY**
President   Jul 2022 - Jul 2023
- Led the organization with 3000+ members, acted as a liaison between the graduate students and the administration
- Collaborated among diverse student groups, committees, senate, and administrators to foster a stronger sense of community among graduate students, resulting in a 70% increase in students' engagement in social events