GOWTHAMI BANKURU

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WORK EXPERIENCE

University of Maryland Baltimore County August 2023-December 2024
Graduate Teaching and Research Assistant Baltimore, MD

- Mentoring students through complex concepts and real-world applications, ensuring they gain practical, hands-on experience in both fundamental and advanced software engineering principles.
- Implemented a machine learning model to enhance UMBC graduate program selection processes under Dr. Mohammad Samarah's guidance and Created comprehensive datasets from UMBC portals, ensuring detailed analysis and accessibility.
- Utilized AWS for deploying robust web services and databases, enhancing system efficiency.

Cognizant Technology Solutions, CTS September 2021 - December 2022
Software Developer Hyderabad, India

Client: ADM-UKI-Delivery for Morrison's supermarket

- ADM - Java Full Stack Developer, AWS Cloud, PG-Admin SQL
- Postman, IntelliJ IDE, Jenkins, Bit Bucket, ServiceNow, Jira

Achievements/Tasks:

- Managed and deployed applications on Amazon AWS, guaranteeing faultless operation and optimal performance.
- Analyzed Cloud Watch logs to identify and troubleshoot bugs, reducing 30% less downtime and expenses for the company.
- Performed manual efforts to resolve immediate issues and implemented permanent fixes for long-term stability.
- Collaborated with cross-functional teams to improve business procedures and develop new features.
- Handled problem tasks, investigating and solving priority tasks and prevent repetitions.
- Implemented and managed ServiceNow HAM (Hardware Asset Management) and SAM (Software Asset Management) modules.
- Designed and configured ServiceNow forms, workflows, and dashboards to meet business needs.

Cognizant Technology Solutions, CTS March 2021 - August 2021
Software Engineer Intern Hyderabad, India

Created an online portal for the Restaurant Management System.

- Enhanced billing efficiency and system scalability by developing microservices using AWS and Spring Boot.
- Pioneered Docker-based deployment for restaurant management, streamlining operations and deployment processes.

PROJECTS

- Implemented a machine learning model to enhance UMBC graduate program selection processes by creating comprehensive datasets from UMBC portals, ensuring detailed analysis and accessibility. Utilizing AWS and Azure for deploying robust web services and databases, enhancing system efficiency.
- Real-time Twitter Sentiment Analysis- Implemented a comprehensive system for collecting, processing, and analyzing tweets to determine the sentiments expressed in them. The solution involves deploying the default Neo4j graph database containing Twitter data, enhancing it with user-defined nodes and relationships, and analyzing tweet sentiments in real-time using NLP techniques using Flask for web serving. Kafka for message processing. Neo4j for graph data storage and querying. MongoDB for additional user profile and tweet storage.
- To meet the needs of the Environmental Task Force and UMBC, my team and I, created the Operation Good Neighbor website using Android, Java and MySQL, MongoDB, Sign-up process, activities that may be volunteered for, and a leader board with a fun point system are all provided on the website. This encourages more volunteering and friendly competition.
- Analysis and prediction of Airlines Delays- I have performed Flight delay analysis and produced visual representations of the data which is very useful for predicting flight delays helps passengers prepare for possible obstacles on their journey and allows airlines to deal with potential delay causes ahead of time. I have Collected Data spanning four years where I have cleaned and extrapolated the data using Google Colab and Python. The revised data is saved in a MongoDB collection which is integrated with Databricks and now by using Pyspark and Pandas.

SKILLS

- **Programming Languages:** C, C++, Java, Spring Boot, Python
- **Web Technologies and Frameworks:** HTML, CSS, JavaScript, JSON, Restful API
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Software and Tools:** Visual Studio, Eclipse, MATLAB, Docker, Databricks, Neo4j
- **Cloud Computing Platform:** AWS, Azure
- **Operating Systems:** Microsoft Windows, MAC OS

EDUCATION

- **University of Maryland Baltimore County, Baltimore, MD** January 2023 - December 2024
  Masters in Computer Software Engineering GPA: 3.67
- **Lovely Professional University, Punjab, India** August 2017- July 2021
  Bachelor of Technology in Electrical and Electronics Engineering GPA: 3.23

CERTIFICATIONS

- Apache Spark Programming with Databricks February 2024 – Present
- Core Java, Udemy July 2020 – November 2020
- AWS Cloud Quest: Cloud Practitioner July 2024