ADITYA GARG

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PROFESSIONAL SUMMARY

Experienced Application Developer with over 3.5 years of hands-on expertise in full-stack development and cloud computing at IBM. Proven track record of optimizing development timelines, reducing costs, and enhancing system performance. Adept in front-end and back-end technologies, CI/CD pipelines, and agile development, with strong collaboration skills across multi-disciplinary teams. Acquired industry certifications in finance, telecom, and travel sectors, with a history of leading knowledge transfer sessions and maintaining high customer satisfaction.

PROFESSIONAL EXPERIENCE

IBM (Application Developer)   **Dec 2019 - July 2023**

- Developed and deployed key features, including tag-specific filters for document search, and enhanced the functionality of an Angular-based internal web portal supporting over 150 team members on IBM Cloud, by implementing new business logic and executing critical bug fixes.
- Deployed the front end for the Angular based internal web portal using IBM Cloud's CI/CD pipeline and prepared for Azure Certification as part of IBM's drive for certifications for all IBMers.
- Led the rapid development and delivery of a mobile-responsive highly visible responsive partnership website of AWS with IBM (Middle East and Africa region) by undercutting the expected 3 week development period and delivering in 1 week's time (Achieved Efficiency of 200% and a cost reduction of 67%)
- Developed a new website template with flip cards, modals and hover tooltips using tailwind CSS, JavaScript, and HTML to speed up development of future Sales websites by 20% reduction in set up time
- Wrote a PowerShell script for Getting Windows Host Machine System Information for multiple systems via PowerShell and exporting to a CSV file for reports thereby optimizing 3 days of manual work into a 10-minute task
- Ensured all SAP systems in the landscape were functional and promptly resolved any issues, resulting in consistent 10/10 Customer Satisfaction ratings throughout 2020.
- Trained new team members by conducting 20 Knowledge Transfer Sessions over the course of 5 weeks with often 20+ points of interest each lasting at least 1 hour 30 minutes and scheduled according to the team's requirements
- Earned digital credentials for Financial Markets, Telecom Industries and Travel and Tourism industries by studying the business models and completing the badges which take around 30 days to complete for 1 badge

TECHNICAL SKILLS

Programming languages: Python, Java, HTML, CSS, JavaScript, TypeScript, C, C++, C#
Technologies: GIT, TailwindCSS, REST APIs, JQuery, Angular, React, Bootstrap, NodeJS, PostgreSQL, MongoDB, Spark, Cassandra, H2database
Tools: Visual Studio Code, Windows PowerShell, Zsh, Microsoft Office, Jira, Confluence, Jenkins

EDUCATION

Master of Science in Computer Science - Rochester Institute of Technology | Rochester, NY   **Aug 2023 - Aug 2025**
Notable Points: Teaching Assistant for Foundations of Cryptography; PCA, Gradient Descent, K-means clustering Big Data projects

Bachelor of Technology in Computer Science - Manipal University Jaipur | Jaipur, RJ, India   **Aug 2015 - May 2019**
Relevant Coursework: Design and Analysis of Algorithms, Big Data Analytics, Internet of Things

ACADEMIC PROJECTS

Find Best Decision Tree using Gradient Descent| Big Data Analytics   **May 2024 - Aug 2024**
- Found the best values for the three dimensions of constructing decision trees on a given dataset
- Created 6 decision trees simultaneously each tree having a variation of the three dimensions.
- Achieved a sub 4 minute time using python multithreading when starting from 9 random starting coordinates doing gradient descent.

Data Mining and Analysis of 2021 MyAnimeList Dataset from Kaggle | Big Data Analytics   **Jan 2024 - May 2024**
- Performed data mining on over 100 Million watch records and gained helpful insights about user watch patterns.
- Used K-Means clustering after loading the data using Python into PostgreSQL and MongoDB and cleaning it.
- Found valuable user watch habits which could be used by streaming companies to invest in profitable Intellectual Properties.

PERSONAL PROJECTS

Web Based JavaScript Games   **Dec 2021 - Mar 2023**
- Built a Web Resource Management Game using Bootstrap hosted on GitHub
- Built a game based on manipulating different complex systems using combinations of vehicles to maximize score hosted on GitHub

Discord Notification Bot   **Jul 2018 - Aug 2018**
- Designed and implemented a JSON webhook based discord bot that uses IFTTT integration to push new video notifications from select youtube creators using REST API directly to the discord server chat.

Web Scraped Data for machine learning   **June 2018 - July 2018**
- Engineered a robust web scraper using Python's BeautifulSoup and Selenium libraries to efficiently extract articles and metadata from high-traffic websites like www.livemint.com and www.coindesk.com, automating data collection and streamlining content analysis.