

# ADITYA GARG

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## 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 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 multiple Knowledge Transfer Sessions 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 - Present

Notable Points: Teaching Assistant for 462 - 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

- Objective was to find the best values for the three dimensions of constructing decision trees on a given dataset
- Solution used was to create 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

- Objective was to perform data mining on over 100 Million watch records and gain helpful insights about user watch patterns.
- Solution was using K-Means clustering after loading the data into PostgreSQL and MongoDB and cleaning it.
- Results were 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](https://www.livemint.com) and [www.coindesk.com](https://www.coindesk.com), automating data collection and streamlining content analysis.