Amulya Boyapati

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EDUCATION

Master of Science Computer Science, the University of Illinois at Chicago **CGPA**: 4/4 Aug 2021 – Dec 2022
Coursework: Advance Software Engineering, Secure Web Applications, Data Science, Advance topics in DBMS

Bachelor of Engineering Computer Science, Vellore Institute of Technology **CGPA**: 3.98/4 June 2017 – July 2021
Coursework: Data Structures, Algorithms, OOPS, Database Management Systems, Cloud and Virtualization

SKILLS

Programming: Java, Python, JavaScript, C, PHP, Scala
Web Technologies: ReactJS, AngularJS, ExpressJS, NodeJS, HTML, CSS, Bootstrap
Databases & Cloud: MySQL, Mongo DB, GCP (GCS, Compute Engine, Dataflow, Pub/Sub, GCS, Big Query, Data Studio)
Tools : GIT, Apache Airflow, Adobe XD, Figma, IntelliJ
Specialties: Software Engineering, SDLC, Requirement Analysis, Object-oriented Design, Machine Learning, Data Engineering

PROFESSIONAL EXPERIENCE

Nielsen IQ
Software Engineer Intern *[Azure Databricks, Spark, Scala, Airflow, Python, AngularJS]* Jan 2021 - Jun 2021

- Automated Business Drivers- an application that helps the packaged consumer manufacturers to determine the components that affect the sales, such as pricing, distribution, promotion, and advertising, and compare their performance with the competitors.
- Created a data-based framework to read data from multiple sales acquisition channels and analyzed sales activity for 5 years.
- Minimized the use of static fields and custom config files making the application 50 % more dynamic.
- Created a dynamic visualization platform by using the data from the snowflake using the Angular framework.
- Actively worked on the orchestration of the application where the application trigger points were reduced from two to a zero-touch application, which reduced the cost of operation by 40 %.

Cyient Pvt Ltd
Software Developer Intern *[Python, Numpy, Pandas, Machine learning]* April 2019 - July 2019

- Road Health Analytics- Smart City initiative focusing on road infrastructure development using ML and AI
- Built a Mask R-CNN architecture to identify the road conditions by object detection and segmentation on satellite imagery feed.
- Used a data set of 300k images over time to analyze the road pictures across different geographic locations in Hyderabad city.
- Gained exposure to a wide range of models for object detection and testing in image classification.

ACADEMIC AND RESEARCH PROJECTS

Employee-Research Management System *[ReactJS, MongoDB, ExpressJS, NodeJS, MongoDB]*

- Developed a SaaS (Software as a Service) based research management platform for the faculty in the university which was adopted by 4 colleges across 2 countries.
- The application is made with ReactJS on the front end, Express and NodeJS on the backend and is integrated with the Mongo database. It allows the faculties to add, view, update and delete their research work.

Rent-A-Gym Mobile Application *[Dart, Flutter, GraphQL]*

- Built an android and IOS application where users can either borrow or lend the gym equipment as a source of passive income.
- Used Flutter framework and integrated with the Hasura GraphQL engine making the application 40% faster than naïve apps.
- The performance has been increased by 50% to the existing design by accommodating more than 10,000 users at a time.

UIC Flames Data Analysis using GCP *[Python, Google Cloud Platform, Apache Airflow, Docker]*

- Developed a platform for the university to visualize the raw data of the basketball players and display the best fastest players, highest paid, top tallest, top strongest players for the year.
- Deployed a docker container that streams real-time API data onto a Pub/Sub topic. Used the cloud functions to ingest the data into the GCS bucket.
- Created a workflow using cloud composer (DAG) to migrate the data from the data lake (GCS) to the data warehouse (BigQuery) in scheduled intervals of time. Designed an ETL system to process and clean the data in the data warehouse.
- Built dashboard using Data Studio to visualize the transformed data.

PUBLICATIONS

Decentralized Social Network and Cryptocurrency Built Using Blockchain Technology
Journal of Advanced Research in Dynamical and Control Systems, Volume 12-04 special issue May'20

- The paper has a unique architecture that utilizes the potential of blockchain to build a decentralized social network system that rewards users with cryptocurrency for reducing plagiarized content.