

Ambrose Tuscano

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EDUCATION

Master of Science in Computer Science

UNIVERSITY OF MARYLAND, BALTIMORE COUNTY

Baltimore, MD | Grad: Dec 2021

Bachelor of Engineering in Computer Engineering

UNIVERSITY OF MUMBAI

Mumbai, India | Grad: May 2019

SKILLS

Languages: Python, Java, SQL, TypeScript.

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB, RDS, Redis.

Frameworks: SQLAlchemy, Flask, Django, FastAPI, ReactJS, NodeJS, Mockito, Junit, Hibernate, Guice, Tortoise ORM

Tools: AWS Services, Spark, Hive, Dask, Ray, Docker, Wordpress, Git, Postman, Tableau, Power BI, Andorid Studio, Jira

WORK EXPERIENCE

AMAZON | SOFTWARE ENGINEER

Arlington, VA | May 2022 – Present

- Partnered with the Content Moderation team to develop an ETL service that automatically identifies the products to be blocked from displaying Ads, resulting in a significant reduction in manual intervention time.
- Implemented the migration of the Content Moderation Service to AWS resulting in 30% cost reduction.
- Contributed to the development of an Ad relevancy system, achieving a projected revenue impact of \$13M annually.
- Identified and resolved data ingestion bug, Coded Integration tests, refactored legacy code, designed dashboard.

OPENPRISE | SOFTWARE ENGINEER

San Mateo, CA | Feb 2022 – April 22

- Developed API calls for consuming Google Calendar API, integrated with PostgreSQL database to push and query pre-processed data within the service.

NXP SEMICONDUCTORS | SOFTWARE ENGINEERING INTERN

San Jose, CA | May 2021 – August 2021

- Revamped the test suite utilizing Unsupervised Learning techniques, leading to minimal configuration changes at each stage, resulting in a 30% reduction in runtime and requiring 50% less manual intervention.
- Created a User Interface in Python that automated the pre-processing of large data sheets, allowing for easy querying and visualization of data graphs to support the analysis of business use cases.

PROJECTS

DIABETES DETECTION SERVICE

FASTAPI, TWILIO, POSTGRESQL, DOCKER, AWS, POSTMAN

- Adapted Random Forest to predict Diabetes with an accuracy of 96% on a class imbalanced data.
- Developed REST based API calls to handle Login, user data graphs, and forms for using the Prediction functionality.
- Adapted Google Maps API to fetch nearest hospitals and integrated Twilio API to send sms and email updates.
- Dockerized application and deployed on AWS EC2 cloud service, used PostgreSQL as the Database.

SPORTS FANTASY APPLICATION

ANDROID STUDIO, JAVA, PYTHON FLASK, POSTGRESQL

- Developed Scrapper to fetch game information and populate the database, which was linked to the application API.
- Created android application to show real time information of Popular sports and hold Football Fantasy tournament.
- Designed REST API using Flask to connect Database to the android application, while supporting features such as user accounts for Fantasy scoring mechanism and game results notifications.

PRODUCT VALIDATION SERVICE

DJANGO, REACTJS, SQLITE, HEROKU

- Built platform to generate QR codes, which when scanned gave details of a item from SQL (used SQLAlchemy ORM)
- Developed API using Django to manage validation, which gave JSON output to the front-end, hosted it on Heroku.
- Embedded links followed a public and private key style cryptography to ensure better security.

PEER TO PEER DISTRIBUTED FILE SYSTEM

SOCKETS, MULTI-THREADING, PYTHON

- Designed a Distributed System based on TCP protocol to support File CRUD operations on 8 connected nodes.
- Developed a failure resilient architecture by supporting replication and implementing version control.