TANISHQ RAWAT

Ujjain, Madhya Pradesh

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Education

Acropolis Institute of Technology and Research, Indore
Bachelor of Technology in Computer Science and Engineering (CGPA of 8.10) *Madhya Pradesh, India*

Technical Skills

Languages: C, C++, Python, JavaScript, SQL, Shell
Frameworks/DB: Pandas, celery, Boto3, pySpark, Flask, jQuery, Django, FastAPI, MongoDB, PostgreSQL, Redis
Platforms : Azure, AWS, Databricks, Git/Github, Docker
Area of Interest: Backend Development, Data Engineering, Machine Learning

Experience

Mobileum Inc. **Aug 2022 – Present**
Software Engineer - 2 (Apr 2024 – Present) *Bangalore, India*
- Migrated and optimized **ETLs** from the in-house tool to **Azure cloud** environment increasing the performance by **40%** handling **100,000 records/min**. Responsible for **Data Warehousing** using Azure Cloud services.
- Enhancing backend services for our product RAID, created in-house **Serverless Computing Services** embedded in the product that can be used to create independent services using **Python, importlib** and **JSON** (like **AWS Lambda**)

Software Engineer - 1 (Aug 2022 - Mar 2024) *Bangalore, India*
- Wrote backend utilities for our NO-CODE platform & reduced the development time of Analytical Dashboards by **50%**.
- Developed an ORM-based DataModel to automate data injection into dashboards, eliminating manual database queries
- Worked on caching mechanism for DataModel helping in dashboard development resulting in decreased latency.
- Automated various utility tasks related to data dump from different data sources using shell script python

Cerebry **Aug 2021 – Feb 2022**
Software Development Engineer *Singapore*
- Led a team to create a framework to extract text from image and convert the text to LaTex to generate questions.
- Developed backend features for generating latex to present math questions based on various parameters.

Projects

Cloud On Tips | *Python, Django, ORM, Celery, AWS, Flask, Boto3, jQuery* | View Demo | **Source Code**
- A web application to create & manage **VPS** & **Serverless Computing Services** without having knowledge to configure it using cloud services. You can create a custom VPS, start, stop, or terminate it whenever required with a single click.
- AWS EC2 instances are being served as VPS and configured using **boto3 SDK**. This platform automates all the actions for EC2. **Serverless Computing Services are built from scratch with no use of AWS LAMBDA**.

Magic (Custom ML Framework) | *C Language* | **Source Code** - Under Development
- Developing **ML framework** and custom matrix, vector, set & operations. Implemented features like **creating test-train dataset, shuffling, encoding (one-hot & Binary), Model training & dataset normalization.**
- Currently it supports **Linear** & **Logistic Regression**, working on integrating GNU Plot to visualize model training.

Formula 1 Analysis | *PySpark, ETL Pipelines, Azure Databricks, Azure Data Factory* | View Demo | **Source Code**
- Formula 1 Analysis is a data analysis project that performs various analyses on Race data of Formula 1 of the year 1950 - present. Wrote ETL to process the data into different layers using **Azure Data Factory**.
- Performed analysis to determine the most dominant driver, most dominant team, best lap time, best average lap time and presented the analysis in **Azure Databricks Dashboard**

Achievements

- Published python package on pypi for logging [**Visit: https://pypi.org/project/loggingontips/**]
- **Star Performer Award** recipient at **Mobileum** for my exemplary contribution in Quarter 1 & 3 for year 2023
- Qualified for **Semi-Finals** of **FlipKart Grid 4.0** in 2022 and **Uber HackTag** in 2022
- Achieved **State Rank 1** (GOLD Medalist) in IOM 2019 in Stage 1 and **State Rank 3** in Stage 2
- Solved over **550 problems** on **Leetcode** (Username: tanishqrawat8)
- Wrote **research paper** on creating Custom Web Server in C++ & Automating ticket system via QR Ticketing System