Meetkumar Charola

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SKILLS :

- DataStructure | Algorithms | OOP | C | C++ | Java | Python | JavaScript | Shell Scripting | PostgreSql | MongoDb
- Boost | Pandas | Multithreading | Asyncio | PySpark | Django | Flask | FastAPI | RestAPI | RPC | Node.Js
- Web Scraping | Unit Testing | Gtest | Pytest | Boto3 | AWS EC2, ECR, Lambda, S3 | Docker | CI/CD | HTML/CSS

EXPERIENCE :

Python Developer (Backend Engineer) | Beekin | July, 2023 - Present | Houston, Texas, USA. (Remote)
- Working on python backend development for predictive AI products with data scientists.
- Worked on maintenance and feature addition in compute intensive parts of proprietary rent prediction engine.
- Implemented multithreaded async API request mechanism which improved speed up to 5 times.
- Implemented python script to standardised data for new clients. Reduced client onboarding time by 75% .
- Automated report generation of AI model results based on dynamic conditions configuration.
- Optimised multiple queries in PostgreSql for faster operations for tables consisting of Millions records.
- Wrote unittest for python modules with pytest and monkey patch. Got coverage of more than 85%.
- Responsible for managing and developing features of crawler that fetches data being used in rent prediction engine.
- Worked on Javascript for task scheduling dashboard to initiate and view progress of the AI models.
- Used Docker and AWS for multiple services.

Associate Software Developer | FlexTrade Systems Inc. | May, 2022 - June, 2023 | Pune, India.
- Working on software development for Flagship Automatic Order Routing trading algorithms for EMS and OMS systems for institutional traders.
- Actively developed breakthrough features in industrial grade OOP(C++ and Python).
- Designed and implemented C++ microservice to track live algorithms progress and publish data to frontend.
- Resolved Static Analysis Issues in codebase pointed out by HelixQAC.
- Developed a python script to publish analytics data to MongoDb for real time decisions.
- Built shell script to automate mongoDB client-server connection.
- Developed a Django based website to auto configure a trading setup in production environment.
- Wrote full-fledged Unit Tests leveraging frameworks like gTest hand-in-hand with framework less mocking.
- Automated test cases generation using python script, which can generate more than 500 test cases in a second.

Associate Software Developer | Inexture Solutions LLP | December, 2020 - April, 2022 | Ahmedabad, India.
- Worked on multiple Python, Rust and Node.js based projects.
- Built multiple RESTful APIs based on client's requirements.
- Worked on AWS CDK with complex architecture which includes, AWS IAM, EC2, ECR, fargate, S3 bucket.
- Implemented CI pipeline in Gitlab to deploy test servers in a few minutes to Heroku/AWS EC2.
- Worked on Plotly and Javascript for data visualisation of multidimensional matrices with dynamic dashboard.
- Wrote test cases with pytest for APIs.
- Developed scraper for multiple websites to accumulate data with cron jobs using Rust and Python.

KEY PROJECTS ASSOCIATED WITH INEXTURE SOLUTIONS LLP : ───────────

Space Weather Data Analyzer | Python, Flask, RPC, AWS, Plotly   **November, 2021**

- Worked on Rest API development with flask to manipulate and visualise data of scientific quantities.
- Developed dynamic dashboard to visualise data in Plotly-Dash and flask as a server.
- Worked on asynchronous server and client communication using RPC framework to reduce loading time.
- Worked on containerization and AWS CDK deployment script using Boto3 to automate deployment.

Send Legal | Python, Django, AWS, Redis, PostgreSql   **May, 2021**

- Created architecture for file transfer and ETL pipelines using AWS services.
- Automated updates from AWS services to sync with Postgres using AWS EventBridge.
- Built a centralised logging system with sentry.
- Designed database with roles and permission implementation in Django.
- Implemented process queue and caching with redis.
- Used python socket programming for SFTP transfer.

TGEG | Data Scraping | Rust | Python | MongoDb   **January, 2022**

- Implemented multiple website scrapers with Rust.
- Created cron job on scrapers to update data periodically.
- Implemented data pipeline to clean and then store data to mongoDb.
- Designed searching mechanism using JQL rust for large JSON files.
- Solved problem to bypass captcha using python.

EDUCATION : ───────────

- **Dharmsinh Desai University**, Nadiad, Gujarat, India.   **2017-2021**
- **Bachelor of Technology** in Computer Engineering.
- **CGPA : 7.95**

CERTIFICATIONS : ───────────

- **AWS Cloud Technical Essentials** : Received AWS Cloud Technical Essentials course completion certificate from coursera. https://coursera.org/share/eed31f38a625cd929f0a3c43f22f6b47

- **Machine Learning From Stanford University Online :** Received machine learning course completion certificate from coursera. https://coursera.org/share/54e28ebdfbc0265a0d830f4ea7722a46