MILTON RODRIGUES

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Skills

- Java | Python | JavaScript | MySQL | MongoDB | Spring/ Spring Boot | Micronaut | Express | React | NoSQL | Git | Pandas
- AWS | Cloud Computing | CI/CD | Gitlab CI | Jenkins | Terraform | Junit | Pytest | Unit Testing | Lambda | OOP | Cloud Formation
- Microservices | Distributed Systems | Data Structures and Algorithms | System Design | Backend | Frontend

Experience

Software Engineer　　　　　　　　　　　　**LSEG**　　　　　　　*Bangalore, India*　**06/2022 - Current**

- Designed and implemented multiple enterprise-level microservice applications of **Refinitv, an LSEG business** driving $6.25 billion of revenue every year, using the latest technologies of **AWS, Python, Java, Micronaut, Spring Boot, SSM, Lambda Functions**.
- Designed and implemented scalable serverless APIs and background workers for managing updates on risk associated **7M+** profile records using **Git** like **branching, adding changes** and **versioning** strategy using **Java Micronaut, Spring Boot, Python, AWS Lambda Functions, API, Gateway, SQS, S3, Aurora MySQL** and other **AWS Technologies** that serve millions of requests everyday.
- Led the design and development background worker for processing and pre-caching 4 million records, reducing reliance on frequent database queries resulting in improved overall system performance using **Pandas, Boto3, Lambda Functions, SFTP, S3, Cloudwatch.**
- Led the migration of on-premises codebase into AWS, resulting in improved overall system availability and reduced human errors.
- Leveraged software design patterns, multi-processing techniques, and a wide range of AWS resources for end-to-end development of software pipeline, resulting in a significant reduction in file generation time from 17 minutes to 6 minutes, resulting in 64% improvement.
- Developed comprehensive unit tests for all class components, achieving 100% code coverage and ensuring the reliability and stability of system using technologies like **Pytest**, **unittest**, **coverage.**
- CI/CD Integration using **Gitlab CI**/Jenkins, Merge requests, code reviews, unit/integration/e2e testing, agile process, release preparations.

Software Engineer　　　　　　　　　　　　**Tata Elxsi**　　　　　　　*Remote*　**08/2021 - 05/2022**

- Designed and implemented enterprise-level applications of USA's largest cable television and home internet service provider Comcast, improving the data analysis flow by automating the manual process and achieved estimated annual time savings of 780 hours.
- Designed and developed user-friendly interface from scratch, which supported multiple screens for embedding kibana dashboards, managing stakeholder email details and metric benchmark details, which facilitated seamless real-time data access for stakeholders using latest technologies like **React, Material UI.**
- Developed and integrated backend APIs with frontend for managing real time data in Elasticsearch using **JavaScript, Node, Express, ElasticSearch** and **Mocha** for unit testing
- Implemented background workers for storing the generated dashboards in AWS S3, Integrated email functionality to automatically send the dashboards to designated recipients, using technologies like **AWS S3**, **Nodemailer**, **node-cron** enhancing communication and information sharing within the organization.

Student Intern　　　　　　　　　　　　**IC Solutions**　　　　　　　*Remote*　**11/2020 - 12/2020**

- Conducted comprehensive exploratory data analysis on extensive automobile price dataset using **Python, Pandas, Numpy, Matplotlib** and **Seaborn**. Gained insights into key trends, patterns, and relationships within the data. [Link]
- Leveraged Google Colaboratory and Python's machine learning libraries to preprocess the dataset and develop predictive models for automobile prices.
- Acquired practical experience in data analysis, preprocessing, and machine learning techniques, laying a foundation for further growth in the field of data science.

Education

Bachelor of Engineering　　　　　　　　　　　　*Mangalore, India*　**07/2017 - 08/2021**

- Computer Science and Engineering, St. Joseph Engineering College (VTU), CGPA: 8.3/10

Projects

- **ECOMMERCE WEBSITE:** Implemented core functionalities of an Ecommerce website, including features such as adding, updating, deleting Items from the cart, as well as changing quantity (React, Redux, Express, MongoDB)　　　　　　**(02/2022)**
- **BLOG APP:** Developed a fully functional Blog Application, enabling users to create, update and delete posts with user authentication Implemented using JWT (React, Material UI, Express, JWT, MongoDB)　　　　　　**(01/2022)**

Others

- Mentored Junior Developers at LSEG | Hackathons | Leet Code | Gaming | Dance