

CHIDAMBARANATHAN M

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Work Experience

5 years and 10 months

Senior Software Engineer

Thomson Reuters

July 2021 - Present

- Contributed to the development of microservices within a SaaS application, using Python and FastAPI framework.
- Developed internal Python libraries to consolidate common functionality and created modules for easy access to microservices REST endpoints by other services.
- Developed and maintained cloud infrastructure exclusively using CloudFormation, playing a pivotal role in both design and execution to ensure seamless deployment and scalability.
- Developed build-spec and deployment configurations for the application's CI/CD pipeline.
- Configured monitoring systems and APM dashboards in DataDog to actively monitor the application performance and workflows.

Software Engineer

Thomson Reuters

- Worked on the development of an event-driven application, utilizing almost all serverless services of AWS stack with the paradigm of Infrastructure as Code.
- Enhanced the performance of Lambda functions in the application by strategically reducing cold start times, resulting in an overall significant improvement of about 30%.
- Identified and incorporated missing test scenarios in the application, significantly increasing test coverage across unit, integration, pre-hook, and post-hook tests.
- Designed and implemented comprehensive end-to-end test scenarios for an event-driven application.
- Implemented a distributed in-memory cache (Elastic Cache) in the application.

Software Engineer

Jean Martin Inc.

July 2018 - June 2021

- Developed Python Lambda functions using serverless framework and S3 event triggers to automate data ingestion processes.
- Built AWS Batch jobs to process large data volumes, reduced user engagement time by 80%.
- Worked on the development of a Django REST Framework (DRF) application in combination with micro services to automate and pipeline multiple data processing jobs.
- Developed DRF APIs and implemented them across cross-functional teams for daily job tracking.
- Created Python workflows to migrate analytical tables from AWS RDS to AWS Athena. This resulted in cost savings and improved analytics performance, even with live data.
- Created Python scripts to extract XML data from APIs and transform it into various tables according to business specifications.
- Translated business requirements into optimized PostgreSQL queries, and created tables and views for data analytics.

Languages and Technologies

- **Programming Language** - Python
- **Database** - PostgreSQL, DynamoDB, MySQL
- **Frameworks and tools** - FastAPI, Django, Dash, Flask
- **Infrastructure** - AWS Cloudformation, Terraform, Docker, Nginx
- **Cloud Ecosystem** - Amazon Web Services

Certification

AWS Certified Developer – Associate



November, 2022

Education

St. Joseph's College Of Engineering, Chennai

2014-2018