Shwetank Dwivedi

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PROFESSIONAL SUMMARY

12.5+ years of rich programming experience in /Investment banking/ Telecom Domain/ Risk/Fintech/Core Banking as a Backend Software Engineering Manager/Architect using **Python,** in the Development and Analysis of Web Applications and Web API integration.

WORK EXPERIENCE

JP Morgan Chase & Co   Aug 2022 – Present
Software Development Manager (VP)

Product/Application: Cross Asset Portfolio Solutions
Domain: Investment Banking
Language: Python
Cloud Platform: AWS – S3, ECS, Dynamo DB, Fargate, Lambda
Infrastructure as a Code: Terraform
Team Size: 10

- **Working to build the Architecture** of the Backend of a Portfolio solutions website built in Python which calculates and shows analytics, risk, and returns of multiple types of investments.
- **Planning the delivery** with the product team to break the major releases in deliverables and Epics.
- **Driving performance improvements** by profiling the Python code identifying long-running code areas and fixing them as part of the core improvements initiative.
- **Building common Python libraries** for the Athena framework to contribute to other projects.
- **Improving the overall web Platform resilience** with the planning of adequate infra.
- Facilitating other services with **exposed REST APIs** built using **Tornado Framework.**
- Migrating some selective On-Prem workloads to **AWS using S3, ECS, and Fargate**
- Setting up Post-code Serverless Lambda jobs using **SQS and SNS** for alerts and reports.

Wells Fargo   Oct 2021 – Aug 2022
Senior Software Developer (AVP)

Product/Application: Intraday Liquidity Monitoring System
Domain: Liquidity Risk
Language: Python, PLSQL
Framework: Django, Flask
Database: Oracle
Cloud Platform: AWS – S3, Dynamo Db , Lambda
Team Size : 6

- **Developing ETL Data Flow Architecture** for the 2.0 version of the Intraday LiquidityMonitoring System from **Data Ingestion from Database, files, Kafka topics**, APIs
- **Writing AWS Lambda functions** to save metadata values in Dynamo Db for usage reporting, thus acting as a post-processor for the Data Flow.
- Designing **Low-Level Class Design** for Intraday Liquidity Monitoring System.
- Exposing Wires, Checks, and ACH data stores through **REST APIs using Django and Flask**.
- Data Sanitization, confirmation, and curation using **Python scripts for ETL**.

Standard Chartered Global Business Services   Mar 2021 - Oct 2021
Lead Developer

Product/Application: RiskETL
Domain: Market Risk, Credit Risk
Language: Python, Oracle PL/SQL
Framework: Django
Security: OAuth2.0
Libraries: boto3**,** NumPy, Pandas, PyMongo, cx_Oracle, Pytest
Database: Oracle 12 c, Mongo DB, DynamoDB
Versioning Tool: Bitbucket, Git
CI/CD: Jenkins
Cloud Platform: AWS S3, AWS EC2, AWS Lambda, API Gateway, DynamoDB
Containerization: Docker
Team Size: 12

- Developing data transformation jobs for **ETL products in Python** Pandas based on requirements given by Risk Managers.
- **Handled a Team of a total of 12 Back-end engineers** working on different microservices.
- Crating and Exposing RiskETL microservices as **APIs using the Django REST framework** as per the new RiskETL version 3.0
- Safekeeping **Input and Output files using AWS S3 for storage**.
- **Writing Upload report logic to AWS S3 using AWS Lambda functions** through Boto3 Library
- Creation of various Apps for downloading data using other data stores through their APIs.
- Accessing/Securing the **Exposed APIs using OAuth2.0 and in-house Authentication**.

Fiserv

Software Development Engineer - Specialist   July 2017- Mar 2021

Product: DNA
Domain: Core Banking and Fintech
Clients: New York Community Bank, Farm Credit, Agfirst Bank
Module: Loans, Deposits, API Integration, Transaction Processing
Language: Python, FLASK, Django REST Framework, PL/SQL
Libraries: NumPy, Pandas, matplotlib, Seaborn, Scikit-learn, PyMongo, cx_Oracle
Database: Oracle 12 c, Mongo db
Versioning Tool: Git, Team Foundation
Server CI/CD: Jenkins
Cloud Platform: AWS S3, AWS EC2, AWS Lambda, DynamoDB, CloudWatch
Containerization: Docker
IDE: PyCharm, Microsoft Visual Studio
OS: Windows, Linux, UNIX
Methodology: Agile
Team Size : 5

- Development of New Business and Regulatory Reports and Customer statements using **Python (Pandas, NumPy) and PL/SQL** for B2B and B2C usage.

- **Worked as a Group Lead of 5 Back End Engineers delivering Commercial Loan project from scratch.**
- Exposing existing Core services as a **REST API using FLASK** for third-party integration.
- Exposing Commercial Banking services using **Django Rest Framework**.
- API Performance Tuning and improvement using Pagination, Multithreading/ Multiprocessing, Caching, and Serializing JSON.
- Experience with **Python ORMs like SQL Alchemy.**
- Implementing measures for Banking **API security using OAuth 2.0**
- **Writing PL/SQL Packages and procedures** involved in the development of new features in each quarterly release of the Core Banking product DNA.
- Using AWS S3, to store huge Transactional Data and ELB for scaling up for biweekly/monthly API traffic.

Amdocs
Technology Integration Engineer - Advanced   Oct 2011– July 2017

Product: Ensemble
Account: AT&T, Comcast
Module: Customer Relationship Management (CRM), Billing, Usage, Rating
Database: Oracle 11g
Language: Python. Oracle PL/SQL, UNIX Shell Scripting
Libraries: FLASK, NumPy, Pandas, OpenPyXl, MatPlotLib
OS: Unix/Linux
Methodology: Agile

- Developed reports regarding the usage of data in **PYTHON using the Oracle database.**
- **Developed billing API using FLASK** as used by third parties for balance checks.
- Developed **PL/SQL Packages** to implement database logic for CRM user detail screen.
- Developed scheduled **Shell Scripts in UNIX** for housekeeping purposes for rating servers.

P E R S O N A L   D E T A I L S

Date of Birth: November 14th, 1990
Nationality: Indian
Marital Status: Married
Current Location: Bangalore, India

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