

HARSH MODI

Senior Backend Developer

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CAREER SUMMARY

Backend Developer with a proven track record of 11+ years, known for innovative problem-solving, attention to detail, and a collaborative approach to software development. Bringing a strategic approach and a keen understanding of the Banking and Finance sector. Proficient in developing robust applications using Python, with extensive expertise in data integration and automation through ETL and DevOps tools.

WORK EXPERIENCE

Nomura

Principal Developer | Sep 2021 - Present

- Developed Python ETL processes for daily batch operations, focusing on data validation, transformation, and aggregation.
- Designed and implemented a microservices architecture using containerized code and gRPC communication.
- Created python modules to extract data from Cube and generate output reports as per regulatory requirements.
- Created Docker images and orchestrated overall batch processes with Prefect tool.
- Migrated data sourcing from FTP to API-based systems.
- Implemented caching functionality to improve re-runability and avoid extra API calls.
- Automated multiple manual tasks, boosting efficiency by 80%.
- Collaborated with cross-functional teams for seamless solution integration and delivery.

Bank of America (BACI)

Software Engineer II A | Sep 2016 - Sep 2021

- Developed a custom job scheduler for Python and ETL batch processes, a centralized file transfer hub and an audit compliant manual adjustment tool for business users.
- Migrated whole codebase to BitBucket from SVN, automated builds with CI pipelines, and deployments with Ansible Tower.
- Created multiple REST API endpoints for the flask backend services.
- Worked on the front-end enhancements and bug fixes.
- Provided L2 support, managed incidents/problems, and created data quality reports.
- Developed monitoring checks and dashboards via ITRS Geneos tool.
- Created shell scripts/Python scripts for SLA data capture and predictions.

Tata Consultancy Services - Client : CIBC Bank

Systems Engineer | Oct 2013 - Sep 2016

- Converted business logic into ETL components of Informatica tool to load data in the dimensions and fact table of data warehouse as part of Basel III implementation.
- Created and managed informatica Mappings/Mapplets/Workflows components along with unit testing.
- Created and maintained Autosys JIL files for the daily and monthly batch jobs.

PERSONAL PROJECTS

- Developed and published Amazon Alexa skills for echo devices using node.js and AWS Lambda.
- Created a Google Assistant ChatBot.
- Developed a windows console app for ALS patients to have conversations via Tobii Eye Tracker and Amazon Echo device.

CERTIFICATIONS

- Microsoft Azure Data Scientist Associate (DP-100)
- Microsoft Azure Fundamentals (AZ-900)
- Oracle Database SQL Expert (1Z0-047)

SKILLS

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|-----------------|-----------------|-------------|------------------|
| • Python | • Informatica | • AWS | • Jenkins |
| • ETL | • Autosys | • Microsoft | • Ansible |
| • Prefect | • Basic Angular | • Azure | • Unix |
| • Microservices | • Redis | • Oracle | • Apache Iceberg |
| • Flask | • Git | • Docker | • Dremio |

EDUCATION

2009 - 2013 | Gujarat Technological University

B.E (Computer Engineering) - First Class

PERSONAL DETAILS

Age : 32

Marital Status : Married

Languages known : English, Hindi, Gujarati