
WORK EXPERIENCE

Flipt LLC

Software Engineer

Apr 2022 - Dec 2023

- Developed **Flask** based **REST API** components that adjudicates claims for pharmacy benefit management by pre-processing the requests (parsing, validating in **Pydantic** and acknowledging through **RabbitMQ**) in **Python**, and reviewing based on patient information extracted from **Couchbase** DB and **Amazon Redshift**.
- Created **Apache Airflow** pipelines that process around **50K** records of PHI data daily by extracting from **SFTP** transferred files, transforming using Python, **NoSQL** scripts and loading into **AWS S3** through DAGs.
- Implemented **asynchronous** modules in Python for optimizing database calls and http requests along with **pagination** in data upserts which reduced the service response time by **27%** and improved CPU usage by **14%**.
- Worked on Python packages including **PyCryptodome** for PHI data encryption, **Pandas**, **numpy** for efficient claim accumulation calculations, **Pytest** for incorporating unit tests and monitoring tools **Datadog** and **Splunk**.

Alpine Electronics

Python Developer

Feb 2022 - Apr 2022

- Implemented advanced image processing techniques in **OpenCV** and **Mediapipe** to preprocess input data, resulting in improved feature extraction and reduced noise in tracking boosting the model accuracy by **9%**.
- Automated the process of integrating pre-processed images into a **RestNet** model fine-tuning workflow from AWS S3 bucket, leading to a **12%** reduction in model training time without compromising model accuracy.
- Diversified training data by applying **data augmentation** techniques like random rotation, translations and flips thereby improving the model's ability to generalize unseen gaze patterns and environmental conditions.

Iqvia, Bangalore, India

Sr. Software Engineer

Feb 2019 - Aug 2019

- Employed Python scripts coupled with **SQL** queries to efficiently transform medical sales data stored in **MySQL** DB into delimited file formats causing a **40%** reduction in time required for generating client specific reports.
- Collaborated with the code migration team to develop Python scripts that interface with MySQL DB to replace DB2 loads by **Mainframe JCL** procedures which improved scalability and increased data loading speed by **25%**.
- Engaged in all SDLC phases of drug sales reporting project including design, development and implementation.
- Collaborated with DevOps teams to establish continuous integration pipelines, automating testing, deployment, and monitoring processes for the SaaS application.

Wipro, Bangalore, India

Software Engineer

Jun 2015 - Feb 2019

- Revamped daily health check activities including server readiness assessment, quote creation, critical job failure alert reports and ticket assignments by creating Python modules which saved **1 hour** per day for the team.
- Achieved **40% increase** in data retrieval speed by optimizing **DB2** queries using **JCL**, **COBOL**, **DB2** and **Rexx** which led to reduction in daily and monthly batch processing duration by **40%** and **30%** respectively.

EDUCATION

MS in Computer Science

San Francisco State University, California

Dec 2021, GPA 3.73

B.Tech in Computer Science

Amrita University, India

May 2015

SKILLS

Languages

Python, Java, C, C++, MATLAB, Prolog

Web application

HTML, CSS, Flask, Gunicorn

Database

MySQL, PostgreSQL, Microsoft SQL Server, Couchbase, Redshift, Alembic

Miscellaneous

Github, JIRA, Docker, Kubernetes, Linux, Agile, SFTP, Airflow, pip