Abhijit Mallick

Experience - 6 Years 4 Months
*Python Developer in **Wipro Ltd**.*
🖥: abhijit01.mallick@gmail.com   ☎: +91 - 9836044813

SKILLS & TOOLS:

- **Languages**: Python, PostgreSQL, Elixir, SQL, Shell
- **Frameworks**: Django REST Framework(JRF), Flask, FastAPI, Phoenix
- **Tools & Platforms**: ActiveMQ, Git, Postman
- **Cloud/DevOps**: AWS (S3, SQS), Docker, Git, CI/CD using Azure DevOps
- **Methodologies**: API Development, Data Processing, OOP, Functional Programming, Concurrency

PROFESSIONAL SUMMARY:

Python Developer with 5 years of experience building scalable and efficient backend systems using Django, Flask and REST APIs. Proficient in cloud integrations, data processing and micro-services architecture with strong problem-solving skills and a focus on performance optimization. Experienced in working with cross-functional teams to deliver robust solutions for enterprise clients.

EXPERIENCE:

- Experienced **Python Developer** specializing in **API-driven architectures, high-availability systems,** and **cloud-native development.**
- Experienced in building scalable and efficient API using framework like **Django REST Framework, Flask, FastAPI**.
- Skilled in leveraging **optimization tools** like **CPLEX** to develop efficient, data-driven solutions for complex decision-making problems.
- Exposure in implementing scalable messaging solutions using **ActiveMQ** for reliable asynchronous communication in distributed systems.
- Proficient in data processing, validation, and filtering to ensure high-quality, accurate, and actionable datasets for analysis.
- Proficient in deploying applications in **Azure DevOps** and implementing CI/CD pipelines to automate, streamline, and enhance the software release process.
- Strong understanding of concurrency and **ETL** operations (Extract, Transform, Load), including data parsing, and pattern identification for optimized data workflows.
- Experienced in implementing **web-hooks** and **callback methods** to enable real-time data interactions and asynchronous processing.
- Skilled in **data-source management** on **Amazon S3** and **Amazon SQS**, ensuring efficient storage, retrieval, and message handling in cloud-based systems.
- Proficient in **API debugging** using **Postman**, diagnosing issues to improve API performance and reliability.

- Comprehensive knowledge of **OOP concepts** and **functional programming**, applying best practices in software development.

KEY PROJECTS:

Project 4:
Title: **Product development using Data Science**
Client: **JetBlue Airways corporation**
*Duration: **November, 2023 – Present***
*Technologies: **Python, Flask, Pandas, Numpy, Optimization models(CPLEX),** PostgreSQL*
Description – *Project aims to provide best optimised solutions for aviation industry. We have developed multiple models like crew scheduling, bidding and training taking advantages of a distributed parallel algorithm for mixed integer programming, flexible and high-performance mathematical programming solvers for linear programming, mixed integer programming.*

- Developed optimised crew scheduling models and training solutions, leveraging mixed-integer programming for efficiency improvements.
- Utilised Python and CPLEX to deliver high-performance solutions that reduced scheduling time by 20%.
- Actively identifying potential risks and vulnerabilities in the codebase.
- Improvement of coding quality and standardisation.
- Building reusable and optimal code for web application using Flask.
- Collaborating with Frontend developers to integrate user-facing elements with server side logic.
- Gathering and addressing technical and design requirements.
- Experienced in designing models and data flows.
- Building reusable code and libraries for future use.
- Cooperating with developers and designers to identify new features.

Project 3:
Title: **Backend development**
Client: ***Wipro Holmes***
*Duration: **September, 2021 – October, 2023***
*Technologies: **Python, Django REST framework,** PostgreSQL*
Description – *This project is related to developing Wipro Holmes - Training Studio. It is a platform for ML model building using which we can do rapid prototyping for models encompassing time-series. Project aimed at dispersing various roles which included datasource creation, ingestion, work allocation, credential creation, authentication and so on. Also added validators to keep database safe from vulnerabilities. Backend is developed using Django REST framework. Had complete exposure to AI, ML and devOps.*

- Built a robust ML prototyping platform on Django REST that supports rapid time-series model development.
- Enhanced security through validator implementation, reducing vulnerabilities.
- Participating in the entire application life-cycle, focusing on coding and debugging.
- Compact and optimal code to develop functional web applications.
- Troubleshooting and debugging applications.
- Managing cutting-edge technologies to improve legacy applications.
- Following emerging technologies.

- Developed scalable modular software packages for various applications and deployed on server.

Project 2:
Title: **Web Application development**
Client: **Dubber**
Duration: **March, 2020 – September 2021**
Technologies: **Elixir, Phoenix framework, AWS S3 and SQS, Linux, GIT**
Description – This project is related to tele-communication which deals with client recordings which is based on functional programming web development platform i.e. on phoenix framework developed in Elixir language. We used to get web hooks of the recordings from which we need to perform ETL operations and stream the recordings. We have developed multiple scalable module and packages such as provisioning, validating, extracting, transforming and loading of metadata.

- Compact and optimal code to develop functional web applications
- Developed code to handle multiple concurrent jobs.
- Have a good understanding of genserver and genstage.
- Troubleshooting and debugging applications if recordings used to stuck in S3 buckets
- Re-trigerring of recordings fixing the issue to get processed from SQS queue
- Strong problem solving and attention to details
- Reformatting of the metadata(son) tags

Project 1:
Title: **Web Application development and support maintenance**
Client: ***Wipro - CLM***
*Duration: **August, 2018 – February, 2020***
*Technologies: **Python, UNIX, Shell***
Description – *This project is related to python scripting for use cases. Used to handle all e*nd-to-end management of all tasks and activities involved in the creation, execution, and management of workflows and processes.

- Performed data parsing and normalisation using Regex.
- Worked on data manipulation.
- Identifying data patterns.
- Worked on data visualisation and web scraping.
- Hands on experience in Python (3+ yrs).
- Have exposure on DevOps.

EDUCATION:

Graduation:
Passed Bachelor of Technology(Full Time) from West Bengal University of Technology in Information Technology with 78%.

03/2014 – 07/2018