Aakash   *Python Developer*
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Professional Summary:

- Over **3+ years** of experience in **Python development**, backend application engineering, and enterprise-scale API development.
- Skilled in **Django, Flask, FastAPI, MVC frameworks**, and building end-to-end RESTful microservices.
- Hands-on experience in **AI, Machine Learning, NLP, Computer Vision**, and model deployment using **TensorFlow, PyTorch, Hugging Face Transformers, OpenAI APIs**.
- Expertise in **LLM fine-tuning, prompt engineering, vector databases, LangChain**, and AI-driven application development.
- Strong experience developing **data pipelines, ETL workflows, and analytics solutions** using **PySpark, Pandas, Numpy, SQL**.
- Proficient in frontend development using **HTML5, CSS3, JavaScript, Bootstrap, Angular.js**, and Web UI integration.
- Skilled in **CI/CD, Docker, Kubernetes**, and cloud platforms including **AWS (EC2, S3, RDS, IAM, Lambda), Azure**, and GCP deployments.
- Experienced in **OOP, multithreading, data structures**, algorithms, and Python-based distributed processing.
- Strong understanding of databases and query optimization using **MySQL, PostgreSQL, Oracle**, stored procedures, triggers, and functions.
- Agile-driven team contributor with experience in **Scrum, sprint planning, requirement analysis, testing, and release cycles**.

Technical Skills:

Languages	Python, Shell Script, SQL
Framework	Django, Flask, MVC Framework
Python Libraries	Pandas, MatPlotLib, NumPy, ScipY, PyUnit, PyQt, PyTest
Web Technologies	JavaScript, HTML5, XML, JSON, CSS3, Node.js, Bootstrap, Angular.js
Versioning Tools	Git, SVN, CVS
Cloud/Tools	AWS, CI/CD, Terraform
Applications/Web Servers	Apache, IIS
Databases	My-SQL, Oracle, PostgreSQL
Operating Systems	Windows, LINUX and UNIX.

Professional Experience:

Client: Broadway Bank, San Antonio, TX. || Duration: Nov 2024 – Till Date
Role: Python Developer
Responsibilities:
- Designed and developed large-scale ETL pipelines using **PySpark, Python, Apache Beam, Cloud Dataflow, Pandas** to process financial datasets across hybrid cloud environments.
- Built ingestion pipelines into **Snowflake, AWS S3, Azure Data Lake, Hive**, enabling regulatory reporting and data warehousing for banking analytics.
- Developed ETL workflows using **Informatica PowerCenter** to create dimension and fact tables following **Star & Snowflake schema modeling** for optimized query performance.
- Implemented real-time streaming pipelines using **Apache Kafka, Spark Streaming, MSK**, enabling event-driven financial data processing.
- Automated pipeline orchestration using **Airflow (Cloud Composer), Oozie** with dependency control, retries, SLA monitoring, and automated scheduling.
- Built ML feature engineering pipelines using **Azure Databricks + MLflow**, integrating PySpark data transformations with Snowflake datasets for model deployment.
- Developed and migrated data using **Azure Data Factory (ADF), Dataflows, Synapse, ADLS Gen2**, supporting batch and real-time data transfer across platforms.
- Containerized ETL microservices using **Docker** and deployed workloads to **Google Cloud Run and GKE**, enabling elastic scaling and reduced operational overhead.
- Designed analytical dashboards in **Tableau and Power BI** for KPI reporting and financial performance visualization.
- Performed complex transformations using **SQL, Spark SQL, U-SQL, SSIS**, reducing latency and improving efficiency across enterprise data pipelines.

Environment: Python 3.x, GenAI, ML, Pytorch, FastAPI, TesnorFlow, Django, MVC, Numpy, Pandas, Matplotlib, urlib2, XML, AWS, PyTest, PySpark, AJAX, JQuery, PL/SQL, Agile and Windows.

Walbrydge Technologies Pvt Ltd, India. || Duration: Jun 2021 - Aug 2023
Role: Python Developer
Responsibilities:

- Developed **Python** automation scripts for **HTML5, XML, JSON** data extraction using **Python 3.x, Pandas, NumPy, SciPy**, improving data processing efficiency.
- Built **AI-driven** application features using **TensorFlow, PyTorch, OpenAI API**, integrating machine learning workflows for analytics and automation.
- Developed backend web applications using **Django, FastAPI, MVC architecture**, implementing **REST APIs** and business logic modules in Python.
- Designed and implemented UI components using **HTML5, CSS3, Bootstrap, JavaScript, jQuery**, ensuring responsive and interactive front-end functionality.
- Built **PySpark** workflows for distributed data processing, creating **Python UDFs** and transformations to handle structured and semi-structured datasets.
- Created **XML schema** definitions and parsers using **Python + XML libraries**, enabling structured data validation and ingestion into backend systems.
- Implemented **AWS services** including **S3, EC2, Elastic Load Balancer, Auto Scaling Groups, RDS**, supporting cloud deployment, scaling, and data storage.
- Designed **RESTful** service integrations using **Django REST Framework, JSON, AJAX**, enhancing real-time data exchange and backend connectivity.
- Created reusable Python modules for dashboards, reporting, and analytics using **Matplotlib, Pandas**, and templating via Django.
- Leveraged **Git, Agile/Scrum workflows, code reviews, CI/CD**, and test frameworks including **PyTest** to support high-quality software delivery.

Environment: AI, FastAPI, Python 3.x, PyTorch, TensorFlow, Django, MVC, AWS, Bootstrap, XML, Numpy, Matplotlib, Pandas, PySpark, AJAX, JQuery, JSON, RESTful, SQL, Agile and Windows.

Education:

❖ **Arizona State University August 2023 - May 2025**
   Master of Science in Information Technology GPA: 4
   Data Science, Cloud Architecture & Operations, Machine Learning, Network Forensics, Middleware prog. and Security

❖ **Poojya Doddappa Appa College of Engineering August 2018 - May 2022**
   Bachelors of Engineering in Computer Science GPA: 8.9
   Data Structures & Algorithms, Artificial Intelligence, Database Management Systems, Object Oriented Programming, Web Development.