

Neel

Senior Python Developer

📍 New York City, NY, US

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Summary

- A passionate python maestro with more than 5+ years of immersive experience in the creation of streamlined solutions across a variety of domains, with a keen focus on AWS cloud architecture.
- Proficient in both frontend and backend development, utilizing technologies like HTML, CSS, Javascript with frameworks React.Js and Django.
- Well versed in working with various databases, including PostgreSQL and MySQL ensuring optimal data storage and retrieval.
- In-depth knowledge of AWS services, including EC2, Lambda, S3, RDS, DynamoDB, and API Gateway for building robust and flexible solutions.
- Good command of REST and RESTful web services and utilization by PyUnit for python unit testing of various applications.
- Expertise in microservices architecture using Python and AWS, fostering modularity, scalability, and ease of maintenance.
- Experienced in continuous integration and continuous deployment (CI/CD) pipelines using tools like Jenkins and GitLab CI, ensuring efficient development workflows.
- Good understanding of kubernetes for container orchestration and terraforms and JIRA for testing.

Work Experience

Senior Python Developer - Morgan Stanley, New York City, NY, USA

March 2022 - Present

PROJECT DESCRIPTION

The existing surveillance system of the company faced inefficiencies in identifying complex trading patterns, leading to potential compliance risks. Leveraging advanced ML algorithms and Python-based technologies, spearheaded the implementation of an Intelligent Trade Surveillance system to address the evolving challenges. Leveraging Python, Django, and Celery, we implemented a microservices architecture to streamline data processing and analysis. The result was a more agile and responsive trade monitoring platform, ensuring adherence to regulatory requirements. We achieved a remarkable 30% reduction in false-positive alerts and enhancing overall risk management.

RESPONSIBILITIES

- Led the implementation of a microservices architecture using Python, Django, and Celery to streamline data processing and analysis for improved efficiency.
- Orchestrated the adoption of Apache Kafka for real-time data streaming, ensuring timely and efficient processing of trade data.
- Employed Python libraries like Pandas and NumPy for data analysis and reporting to ensure system's regulatory requirements.

- Implemented advanced Python-based technologies, including ML libraries such as Scikit-learn and TensorFlow, to build robust ML algorithms for intelligent trade surveillance.
- Deployed PyTest for testing and Implemented efficient data processing using databases like PostgreSQL.
- Worked in Agile methodologies to foster iterative development for rapid adjustments and continuous evolution in project requirements.

Python Developer - Wells Fargo, San Francisco, CA, USA

July 2020 - February 2022

PROJECT DESCRIPTION

Wells Fargo was facing a issue o streamline the process of identifying fraudulent activities and irregularities in financial transactions. Led the development of anproject aimed at enhancing the accuracy and efficiency of customer financial data analysis. Implemented AWS for scalable infrastructure, React for dynamic user interfaces, and MySQL for secure data storage, we implemented a comprehensive system. This project resulted as a significant 25% improvement in the accuracy of fraud detection, empowering Wells Fargo to proactively secure customer financial transactions.

RESPONSIBILITIES

- Implemented and optimized AWS services, such as Lambda, EC2 for efficient computation and S3, for scalable and secure infrastructure, facilitating efficient financial data processing.
- Developed dynamic user interfaces using React and Implemented PyUnit for rigorous unit testing, ensuring the reliability and accuracy.
- Orchestrated containerized applications using Kubernetes to Manage and optimize the MySQL database for secure and reliable storage.
- Established a robust CI/CD pipeline using Jenkins to automate testing and deployment processes,
- Designed Python algorithms for customer, utilizing JSON for efficient data interchange and REST API integration for real-time data retrieval.
- Created a microservices architecture, ensuring modularity and flexibility in addressing specific functionalities of the system.

Software Developer - Walmart, Bentonville, AR, USA

March 2019 - June 2020

RESPONSIBILITIES

- Designed dynamic and user-friendly frontend interfaces using HTML, CSS, JavaScript and robustness using React.js and Django.
- Managed and optimized MySQL databases to ensure secure and scalable storage by optimizing scalable web server nginx.
- Implemented PyTest for rigorous testing and worked in JIRA ensuring the reliability and accuracy of the Intelligent Inventory Optimization System.
- Utilized Python data analysis libraries like NumPy, Pandas and Matplotlib to provide actionable insights in project.
- Designed and implemented RESTful APIs, facilitating communication between various retail systems and improving data flow efficiency.
- Worked in Agile development methodologies, ensuring adaptability to evolving retail project requirements and swift responses to market changes.