VISHAL SONAWANE

Lead - Software Engineer - Python|AWS|Data

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📍 Pune

EDUCATION

Master of Science
Computer Science
Washington State University
📍 Pullman, WA
🎓 CGPA 3.9/4.0

Relevant courses
- machine learning
- artificial intelligence
- data science
- algorithms
- big data

SKILLS

- Python, SQL, Unix Shell Scripting
- Django, Amazon Stack (EC2, ECS, S3, RDS, Redshift, Lambda, EMR)
- GitHub Copilot, SonarQube, Apache Airflow, IBM DataStax Cassandra
- Tableau, Power BI, JuPYter Notebook, Python packages (data manipulation)
- Mongo DB, MySQL, Postgres SQL, Map reduce, PySpark, Dynamo DB
- Microsoft SQL Studio, PyCharm

CERTIFICATIONS

- AWS Certified Solutions Architect
- Modern Big Data Analysis with SQL
- Pandas for Data Science
- Essential Training Machine Learning and AI Foundations
- GenAI for Managers

CAREER OBJECTIVE

Lead Software Engineer with 12+ years of Python expertise, specializing in AWS serverless architecture, data engineering, solving big data problems, onboarding AI solutions. Serving as Technical Project Manager managing 30+ member team

WORK EXPERIENCE

Technical Project Manager (Python/AWS)

Quinnox Consulting

📅 Feb 2024 - current   📍 Remote (Pune, India)

- Spearheaded onshore and offshore team efforts, enhancing project delivery by 30% through strategic planning and effective management.
- Led architecture designs in collaboration with clients, successfully automating 2 legacy applications, reducing processing time by 75%.
- Developed and optimized AWS EMR Pyspark jobs and Airflow DAG workflows, enhancing data processing efficiency by 70%.
- Designed and implemented 5 AWS CloudWatch dashboards, enhancing monitoring and alerting capabilities, boosting client engagement by 50%.
- Served as a Subject Matter Expert, leading RCA initiatives that improved feature onboarding efficiency by 50%.
- Contributed to Cassandra cluster and database design, optimizing data retrieval by 20%, enhancing system performance.
- Spearheaded DevOps initiatives with Docker and GitHub Actions, optimizing deployments and improving efficiency by 30%.

Lead - AWS Python Developer

Fannie Mae

📅 June 2022 - Jan 2024   📍 Remote (WA, USA)

- Collaborated with the Risk and Compliance Technology team to efficiently extract and transform data from APIs and S3, enhancing storage in AWS RDS and Redshift, boosting data retrieval speed by 30%.
- Engineered Python lambda functions to process 10,000+ data entries monthly, reducing report generation time by 30% for Tableau.
- Developed 5 PySpark Glue jobs improving data transformation of daily AWS S3 files by 70% from CSV to Parquet format.
- Engineered API utilities to streamline data processing from diverse sources, enhancing efficiency by 30% using API Gateway and DynamoDB.
- Developed and optimized over 50 SQL queries and procedures in Redshift, enhancing data retrieval efficiency by 25%.
- Developed UNIX scripts leveraging Boto3 to automate AWS service invocations via EC2, enhancing batch process efficiency by 25%.
- Collaborated with Agile and Scrum teams to streamline project delivery, improving timelines by 20% and enhancing team efficiency.

Python Developer | Specialist Programmer

Bank of America | Infosys

📅 May 2020 - June 2022   📍 Irving, TX

- Developed predictive machine learning algorithms in Python, boosting model accuracy by 15%; enhanced data processing of JSON and XML formats by 30%.
- Led end-to-end data mining processes, achieving a 20% reduction in analysis time through efficient data cleaning and advanced modeling techniques

- Streamlined data manipulation and aggregation across multiple sources using Nexus and PowerBI, improving reporting efficiency by 30
- Led a team of 5 in implementing Agile methodology, reducing project delivery time by 30% for an internal application
- Developed a Python utility utilizing SciPy, NumPy, and pandas to streamline data processing, improving efficiency by 30%
- Spearheaded data discovery initiatives across 150+ applications, identifying 50+ instances of potential confidential information and enhancing database security
- Developed Python utilities reducing manual effort by 60% and saving client $200K+ worth of time and effort

Technology Lead - Data Analytics
Neiman Marcus | Infosys

📅 September 2019 - May 2020   📍 Irving, TX

- Led 10+ client engagement initiatives, driving functionality enhancements to meet business requirements on schedule
- Analyzed and resolved critical production incidents, enhancing business continuity by 30%
- Led ETL big data projects, supporting 10+ critical business integrations using Informatica, Python, and AWS, streamlining enterprise operations
- Introduced automated scripts using Python and Selenium to automate creating and closing tickets as per the scenario. This reduced the time per ticket from 2 minutes to 20 seconds

Data Scientist
Washington State University

📅 August 2017 - May 2019   📍 Pullman, WA

- Built complete PyPI complaint python package (pyleafarea) using deep learning (keras) and computer vision (open-cv) to automate specific leaf area measurements improving work efficiency by 60 percent

Senior Software Engineering Analyst- Analytics and Automation
Accenture Services

📅 June 2012 - July 2017   📍 Pune, India

- Enhanced software testing processes at the largest Nordic insurer by implementing Java Selenium framework, improving efficiency by 30%
- Led independent module testing in insurance, enhancing client satisfaction by 25% through on-site collaboration
- Led automation initiatives for regression testing, increasing test efficiency by 30% in project sub-module
- Mentored 5 junior team members, enhancing their domain knowledge and improving their performance by 30%
- Streamlined reporting processes by 30% using advanced Excel macros, delivering comprehensive reports efficiently