Mehul Kanadiya

AWS-Python Developer

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Professional Summary:

- **8 years** of experience as a **Web/Application Developer** and coding with analytical programming using **Python.**
- Experienced in developing web-based applications using **Python, Flask, Django, Java, HTML, DHTML, JavaScript, React, Node.js and jQuery.**
- Experience in **List Comprehensions**, **object-oriented programming** (OOP),**Map, Filter** and **Lambda**inPython
- Experienced in developing **Web Services** with Python programming language and good knowledge of Web Services with protocols **SOAP, REST.**
- Well versed with design and development of presentation layer for web applications using technologies like **HTML, CSS**,**Bootstrap** and **JavaScript.**
- Experience in working with various Python IDE, **PyCharm, Eclipse, Sublime Text** and **Notepad++**
- Proficient in writing complex **SQL Queries**, stored procedures, triggers and well experienced in **MySQL, Mongo, Oracle, SQLite** and **PostgreSQL**
- Experience in AWS Cloud platform and its features which includes **AWS Lambda,API Gateway, Glue, EMR, EC2, AMI, EBS CloudWatch, Config, Auto-scaling, IAM user management, CloudFormation, S3 and Boto3**
- Experience with Python Libraries such as **HTTPLib2, Urllib2, Beautiful Soup, NumPy, SciPy, Pickle, Pandas, Pyside, SciPy, PyTables, PySpark**and **Matplotlib.**
- Extensively worked with automation tools like **Jenkins** for continuous integration and **continuous delivery (CI/CD)** and to implement the End-to-End Automation.
- Well versed with **Agile** with **SCRUM**,**Waterfall Model** and Test-driven development methodologies experienced in installing, configuring, modifying, testing and deploying applications with Apache.
- Experience in using version control systems **Git**,**GitHub, Bamboo, Bitbucket.**
- Proficient **crypto miner** with 3 years of **Chia blockchain** expertise, strategically orchestrating 400TB storage across 4 **Linux** systems for optimized cryptocurrency mining. Leverages robust **programming** skills to achieve seamless networking and advanced mining operations.
- Highly motivated, dedicated, quick learner and have proven ability to build and manage a team and work individually.

Certification:

PCAP - Certified Associate in **Python Programming** (August-2023)

AWS Certified **Security**– Specialty (December-2022)

AWS Certified **Database** – Specialty (November-2022)

AWS Certified **Data Analytics**– Specialty (October-2022)

AWS Certified **DevOps Engineer** – Professional (September-2022)

AWS Certified **Developer** – Associate (August-2022)

AWS Solution **Architect** Associate (July-2022)

AWS Certified **SysOps Administrator** - Associate (August-2022)

SAFe 5 POPM: Product Owner/ProductManager (Scaled Agile)

Databricks Lakehouse Fundamentals

Technical Skills:

Languages	Python3, SQL, Apache Spark, Java, Javascript,
Frameworks	Flask, Angular, Node.js, Express.js, Django, React
Databases	SQLite, MySQL, Postgress, MongoDB, Oracle, Aurora, DynamoDB
IDE's	PyCharm, Eclipse, Jupyter Notebook, MS Visual Studio, Inteli J
Other Tool	Databricks, Jira, Athena, Ansible, Terraform, Honeycomb, Control-M, Kubernetes, Snowflake
Data Visualization	Power BI, Tableau, Quicksight, Splunk
Methodologies	Agile, Scrum and Waterfall
Cloud Platforms	AWS, Azure, Google Cloud Platform

Professional Experience:

Deloitte Consulting LLC   Client: Vanguard, Malvern, PA   **April 2022 – July 2023**
Role: AWS-Python Developer
Responsibilities:

- Analyze the existing mainframe environment, including **DB2 databases** and associated **API**s, to identify dependencies and areas for modernization.
- Conduct a thorough assessment of the current state, including **data structures**, **application logic**, and **business processes.**
- Design and develop a strategy for modernizing the APIs to be compatible with AWS infrastructure and best practices.Refactor and rewrite existing API code, leveraging AWS **API Gateway** or other suitable AWS services for hosting and managing APIs.
- Utilize Python programming skills to architect and develop robust **APIs**, facilitating seamless communication between applications and services, and enabling data exchange and functionality.
- Evaluate and recommend appropriate **AWS** database services (such as Amazon **RDS** for DB2, **Amazon Aurora**, or Amazon **DynamoDB**) to replace the existing DB2 infrastructure.
- Implement **ETL** (Extract, Transform, Load) processes using **PySpark**, transforming raw data into structured formats for analysis.
- Create PySpark jobs to perform data cleansing, filtering, and aggregations for data quality improvement.
- Designed and developed serverless applications using **AWS Lambda**, harnessing its event-driven architecture to execute code in response to various triggers, optimizing resource utilization and cost efficiency.
- Utilized **AWS Lambda** to build microservices that seamlessly integrate with other AWS services, enhancing application functionality and scalability while adhering to modern architectural principles.
- Refactor and optimize database **schemas**, **queries**, and **stored procedures** to take advantage of AWS database features and **performance improvements.**
- Implement **data governance** and **security measures** in accordance with industry best practices.
- Set up and configure AWS services such as Amazon **EC2** instances, Amazon **S3** buckets, Amazon **VPC**, and others, as per project requirements.
- Integrate the modernized DB2 databases and APIs with other AWS services or third-party applications as needed.
- Develop interactive and static **visualizations** using industry-standard tools like **Tableau, Power BI**, or custom libraries in Python or JavaScript.
- Leveraged **Databricks** for advanced data analytics, utilizing its collaborative and interactive platform to perform data processing, transformation, and analysis, driving informed decision-making and insights generation.
- Create technical documentation and user guides for the modernized DB2 databases and APIs.Provide knowledge transfer sessions and training to the IT team and end-users on the migrated components.
- Used **Git** version control system for collaborating with teammates and maintaining code versions.
- Debug the project using Jira in an Agile environment.

Environment: Python,Spark, KAFKA, CDC, AWS, API, Control-M, IAM, Bitbucket, Bamboo, Boto API, Aurora, PySpark, GIT, Jira, Agile, Spring boot, Java, Glue, Tableau, Lambda.

Kunj Inc   Client: Parity Technology Solutions, H M insurance, LakeLand Bank   Jan 2016 – March 2022
Role: AWS/Python Developer
Responsibilities:

- Played a key role in all phases of **SDLC**, from **Requirements** Collection to Design & Analysis of Customer Specifications, and Development and Customization of the Application.
- Familiarized with the existing codebase, project requirements, and business objectives.
- Actively participated in Agile and Scrum meetings, including Sprint planning, Daily Scrums or Stand-ups, and contributed to designing, developing, and testing the application.
- Developed and maintained parsing modules to efficiently read CSV, XML, and JSON data from files and REST services.
- Applied strong object-oriented programming (OOP) concepts using Python, Django, Flask, and Linux.
- Develop and implement data processing workflows using **EMR** and associated tools like Hadoop, Spark, Hive, and Pig. Optimize data transformations, perform ETL (Extract, Transform, Load) tasks, and leverage parallel processing capabilities for efficient data analysis.
- Lead the design and implementation of containerized solutions using **Kubernetes,** orchestrating scalable and resilient applications while ensuring optimal resource utilization and efficient deployment.

- Utilized MongoDB database concepts, including locking, transactions, indexes, Sharding, replication, and schema design. Developed monitoring and notification tools using Python.
- Successfully deployed PySpark applications in cluster environments using tools like Apache Spark, Databricks, or AWS EMR.
- Implemented rigorous security measures by configuring **Redshift's IAM roles, database users, and user-defined** permissions. Ensured data privacy and compliance by managing access controls and encryption settings.
- Implemented robust backup and disaster recovery strategies for **Redshift clusters** by creating automated snapshots, maintaining retention policies, and practicing regular cluster restoration tests.
- Designed and implemented RESTful APIs and server-side functionalities using Node.js and Express.
- Developed user-friendly interfaces for dynamic exploration and filtering of visualizations using tools like Tableau, Power BI, or Quicksight.
- Efficiently used JIRA for bug tracking, issue management, and implemented various options to the application to enable users to choose specific algorithms for data and address generation.

Environment: Python, Flask, HTML, CSS3, jQuery, JSON, HTTP, PyTest, MySQL, GITHUB, Jira, Agile, Windows, AWS, S3, CSV, XML, JSON, HTTP, MySQL, GIT, Jenkins, Jira, Agile, Linux, PowerBI.

Education:

Graduate Education
Master of Public Health, M.P.H 2008-2011
Ohio University, Athens, OH, USA

Associate in Information System,   2012-2016
Cuyhoga Community College, Cleveland, OH

Medical Education
Pramukhswami Medical College, M.B.B.S. (MD) 2001-2007
Sardar Patel University, India (Bachelor of Medicine and Bachelor of Surgery)

Board Certification:

Educational Commission for Foreign Medical Graduate (ECFMG) #0-741-046-7 Aug 2010

United States Medical Licensing Examination:

Medical Sciences
USMLE Step-1 July2009-Passed
USMLE Step-2 CK Feb 2010-Passed
Clinical Sciences
USMLE Step-2 CS July 2010-Passed

Peer-Reviewed Publications:

Google Scholar Profile: https://scholar.google.com/citations?user=fObzCLIAAAAJ&hl=en

- **Kanadiya MK**, the swine flu outbreak among college students aged 18–24 years. Journal of PublicHealth. 2011;19(2):139-145.
- **Kanadiya MK**, Singhal S, Koshal VB. Prasugrel as a Safe Alternative for Clopidogrel-AssociatedArthritis. Journal of Invasive Cardiology 2011;23:E137-E138. PMID- 21646658
- **Kanadiya MK**, Klein G, Shubrook JH. Use of and attitudes toward complementary and alternativemedicine among osteopathic medical students. JAOA: Journal of the American Osteopathic Association.2012;112(7):437-446. PMID
- **Kanadiya MK**, Gohel TD, Sanaka MR, Thota PN, Shubrook JH. Relationship between type-2 diabetesand use of metformin with risk of colorectal adenoma in an American population receiving colonoscopy.Journal of Diabetes and Its Complications. Published online 5 June 2013.
- PN Thota, HJ Lee, JR Goldblum, X Liu, MR Sanaka, T Gohel, **M Kanadiya**, et al. (2015) RiskStratification of Patients With Barrett's Esophagus and Low-grade Dysplasia or Indefinite forDysplasia Clinical Gastroenterology and Hepatology 13 (3), 459-465. e1

Work Authorization:

Green Card Holder