**Sachin Joseph**

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**OBJECTIVE**

Proactive Software Engineer with a solid foundation in Object-Oriented Programming (OOP), full-stack development, and cloud infrastructure across AWS, Azure, and GCP. Experienced in backend and frontend development, database management, and REST API design, with a keen ability to build and optimize cloud-native applications.

**HIGHLIGHTS**

* **Software Development:** 1+ years of experience in Java and Python, complemented by proficiency in JavaScript frameworks (ReactJS), enabling seamless integration across full-stack applications.
* **Front-End & Frameworks**: Skilled in building responsive Single Page Applications (SPAs) with ReactJS and experience with the Spring Framework to deliver efficient front-end and backend solutions.
* **Database Expertise**: Proficient in both SQL and NoSQL databases, including SQL Server and MongoDB, with experience in database optimization, schema design, and data migration to support scalable applications.
* **Cloud Platforms**: Hands-on experience with AWS (RDS, Lambda, S3), Azure (AKS), and GCP, adept at deploying and managing applications in cloud environments for enhanced scalability and performance.
* **APIs and RESTful Services**: Skilled in developing REST APIs with Python and JavaScript for seamless communication and integration across systems.
* **Collaboration & Agile Development**: Proven track record of working within Agile teams, collaborating effectively with designers, developers, and product managers. Experienced in using Agile methodologies and DevOps tools (Jira, Azure DevOps) to drive product success.

**SKILLS & CERTIFICATIONS**

* **Programming Languages and Frameworks**: Python, JavaScript, Java, React JS, Node JS, Django, Flask
* **Databases and ETL**: SQL Server, MongoDB, Databricks
* **Cloud Platforms & Visualization:** AWS, Azure, GCP, Tableau, Power BI
* **Certifications:**
  + AWS Machine Learning Engineer Associate
  + Oracle Cloud Infrastructure Foundations 2021 Certified Associate
  + Architecting with Google Compute Engine
  + MongoDB Python Developer Path
  + Databricks Lakehouse Fundamentals

**EDUCATION**

**Graduate Certificate, Applied Artificial Intelligence & Machine Learning Jan 2024 to Aug 2024**

Conestoga College, Waterloo, Ontario

**Graduate Certificate, Big Data Solution Architecture Jan 2023 to Aug2023**

Conestoga College, Waterloo, Ontario

**Bachelor of Technology (Honors) in Computer Science and Engineering Sep 2017 to July 2021** APJ Abdul Kalam Technological University

**EXPERIENCE**

**Associate Software Engineer July 2021 to Nov 2022**

**Accenture Bangalore, India**

* Designed, maintained, and migrated SQL Server databases across development, staging, and production environments, ensuring optimal performance and scalability, while developing and optimizing complex SQL procedures, functions, and views.
* Designed and optimized ETL processes for data integration, using Python, SQL, and Apache Spark to handle large-scale datasets and ensure seamless data flow.
* Built and validated ML models for predictive analytics and business insights, utilizing frameworks such as TensorFlow and PyTorch.
* Developed CI/CD pipelines, spearheaded Docker containerization for consistent and scalable environments, and facilitated the deployment of microservices in Kubernetes, automating the build, test, and deployment processes to ensure continuous integration and delivery across multiple environments.
* Developed and deployed Python Rest APIs, leveraging proficiency in Python to create scripts and applications for data manipulation, automation, and backend services, ensuring seamless communication and integration between various systems.
* Developed MongoDB script-based reports and Power BI dashboards for in-depth product market analysis. Utilized MongoDB views to build dashboards enabling product owners to track growth which contributed to a 20% increase in profit for the developed product.

**PROJECT WORKS**

**ASDInsights, Machine Learning Application for Autism Detection:** [GitHub](https://github.com/sachinjoseph26/ASDInsight)

Tech Stack:Python, Flask API, TensorFlow, Open CV, AWS, MongoDB

* Developed a machine learning application for detecting autism spectrum disorder in children using eye tracking and behavior analysis.
* Developed Rest APIs and implemented CI/CD pipelines with agile different agile technologies (Azure DevOps, Jira) and GitHub.
* Deployed machine learning models in development and production environments, utilizing Docker for containerization and ensuring smooth deployment in production.

**Azure End-to-End Data Engineering Project: Customer Demographics Analysis:** [GitHub](https://github.com/sachinjoseph26/Azure_Data_Engineering_Project/tree/main)

Tech Stack:Azure Data Factory, Azure Databricks, Azure Synapse Analytics, PySpark, SQL Server, Power BI

* Designed and implemented a robust ETL pipeline using Azure Data Factory to extract, transform, and load customer and sales data from an on-premises SQL database into Azure Data Lake, enabling centralized and structured data storage.
* Leveraged Azure Databricks for data transformation and preparation, organizing datasets into bronze, silver, and gold layers for efficient processing and enhanced analytics capabilities.
* Created an interactive KPI dashboard in Power BI and Integrated Azure Synapse Analytics as a scalable data warehouse solution for advanced querying and modeling of sales and demographic data.

**IPL Analytics, Data Analysis using Databricks & PySpark:** [GitHub](https://github.com/sachinjoseph26/IPL_DataAnalysis_PySpark)

Tech Stack:Azure Databricks, PySpark, Spark SQL, Python, Azure storage

* Designed and implemented a data analysis workflow using Azure Databricks and PySpark, including loading, transforming, and analyzing structured and semi-structured datasets from Azure Blob Storage.
* Performed exploratory data analysis (EDA), deriving actionable insights through advanced PySpark transformations, SQL queries, and window functions, while leveraging Databricks' visualization tools for interactive charting and graphing.