SAHIL UPADHYAY

📞 +91 7737890301 / +91 8559067075   ✉ sahil.aps2k12@gmail.com   in in/sahil-upadhyay-2921b5127/

Ⓜ medium.com/@sahilupadhyay.work   ⏻ github.com/sahil-lab

| LinkedIn | GitHub | Gmail | Medium | 7737890301 WhatsApp | 8559067075 WhatsApp |

SUMMARY

Experienced Senior Java Developer specializing in Big Data Analytics. Proven track record of successfully implementing intricate projects within the data-driven software landscape. Adept in programmatic solutions, data integrity, statistical interpretation, and interactive data representation. Proficient in leading cross-functional development teams, harnessing big data technologies, and fostering data-informed decision-making. Devoted to catalyzing innovation and upholding meticulous data precision benchmarks. Outcome-driven professional committed to propelling organizational advancement through adept software development and mastery of data analytics intricacies.

With an unwavering commitment to quality and a proven aptitude for bridging complex technical challenges, I continuously refine my expertise in DevOps practices and scalable system design. My collaborative approach ensures that cross-functional teams thrive, ultimately delivering robust, user-centric solutions that align with evolving business objectives.

EXPERIENCE

Persistent Systems Limited
Engineer Lead

August 2023 – August 2024
India

- Led virtual environment development using Spring Boot, Angular (2+), JavaScript, CSS, and Bootstrap for card maintenance systems.
- Implemented Microservices architecture using Java, Spring Boot, Node JS, Hibernate, and big data tools like Hive and Apache Sqoop.
- Enhanced application reliability through automated testing in continuous integration pipeline using Java-based tests.
- Orchestrated distributed systems using Kubernetes and Docker for efficient application deployment and scaling.
- Utilized AWS cloud toolkit and Microsoft Copilot for troubleshooting and debugging with algorithm analysis.
- **Key Achievement:** Successfully reduced deployment time by 30% through continuous optimization of CI/CD processes, leveraging container orchestration and advanced automation strategies.
- **Leadership Highlight:** Mentored a team of 8 engineers, introducing agile best practices that increased collaboration and improved overall software quality metrics.

Capgemini
Professional 2

October 2021 – May 2023
India

- Architected systems in agile environment using design patterns and industry best practices.
- Integrated Docker for streamlined deployment workflows ensuring consistency across operating systems.
- Leveraged AWS and Azure for application and data migration, optimizing storage systems through snapshot technology.
- **Process Enhancement:** Spearheaded improvements in deployment pipelines, reducing downtime by 20% and expediting release cycles.
- **Client Collaboration:** Conducted deep-dive sessions with stakeholders to outline user stories, ensuring alignment with business goals and creating measurable success criteria.

Kent Ro
Senior Analyst

November 2020 – April 2021
India

- Developed data catalog and lineage system using Neo4j, Java, and Docker with Hive integration.
- Managed AWS-based systems and containerized deployments, integrating MySQL, MongoDB, RabbitMQ, and Kafka.
- Implemented PowerShell and Shell scripting for system administration automation.
- **Innovation in Data Management:** Incorporated advanced lineage tracking, significantly accelerating root-cause analysis and compliance audits for complex data transformations.
- **Cross-Team Coordination:** Collaborated with DevOps and QA teams to refine processes, reducing environment configuration errors by 40%.

Cognizant
Programmer Analyst

December 2018 – December 2019
India

- Optimized desktop applications using big data concepts and algorithmic strategies.
- Developed data-centric applications using Core Java, Spring Boot, MySQL, JavaScript, and HTML5.
- Integrated Hadoop, Hive, and Spark for efficient data processing and analysis.
- **Performance Boost:** Enhanced data processing speeds by 25% through fine-tuning of Spark jobs and efficient data partitioning strategies.
- **User Experience:** Refined front-end workflows, achieving a 15% increase in user satisfaction scores measured through internal feedback tools.

Wipro
Associate Analyst

May 2017 – May 2018
India

- Acquired strong command of database management through comprehensive training, with specialization in SQL for handling large-scale datasets.
- Drove web page performance optimization for industry leaders including UTC, Apple, and Cisco, improving user experience and operational efficiency.
- Exhibited expertise in database management using advanced tools like ATE (Advance Table Editor) and Bluezone CICS within IBM mainframe technology stack.
- **Tech Stack Expansion:** Successfully leveraged IBM mainframe operations to implement secure data flows and reduce error rates by 20%.
- **Client Impact:** Contributed to UI/UX enhancements, resulting in improved page load times and higher customer engagement across multiple Fortune 500 clients.

PROJECTS

COVID Data Analysis   **April 2022 – December 2021**
Lead Developer

- Extracted live COVID-19 data from Worldometer using Pandas and Java for dynamic data processing of case information.
- Created comprehensive tables analyzing total cases, recovered cases, and deaths for 222 countries, organizing data both country-wise and region-wise using Java, Pandas, and Matplotlib.
- Generated impactful visualizations through scatter plots and bar graphs, integrating data from Excel sheets to foster deeper understanding of the COVID-19 situation.
- Provided crucial insights to government institutions regarding vaccine dose requirements based on case numbers, demonstrating practical applications of data analysis.
- **Predictive Modeling:** Designed a basic ML pipeline using Python, enhancing forecasting accuracy of infection rates by 10%.
- **Policy Influence:** Presented analytical findings to health committees, contributing to strategic deployment of vaccination resources.

EDUCATION

Lovely Professional University   **2018**
BTech with Minor in Android   *7.5 CGPA*

CERTIFICATIONS

- **Google Advanced Data Analytics: Professional Certificate** (2023)
- **Google Business Intelligence: Professional Certificate** (2023)
- **Data Analytics with Jupyter IDE** - Free Code Camp (2022)
- **Big Data** - Data Air (2019) - Hadoop 2.x

CERTIFICATIONS & COURSEWORK

- **Google Advanced Data Analytics: Professional Certificate** (2023) - Foundation of Data Science
- **Google Business Intelligence: Professional Certificate** (2023) - Foundations of Business Intelligence
- **Data Analytics with Jupyter IDE** - Free Code Camp (2022) - Proficient in using Jupyter notebooks for exploratory data analysis, predictive modeling, and data visualization using Python libraries.
- **Big Data** - Data Air (2019) - Hands-on experience with Apache Hadoop 2.x, Apache Spark, and Apache Kafka for processing and analyzing large volumes of data using distributed computing techniques.

ACHIEVEMENTS & HONORS

- **Research paper** - Published research papers on Quantum communication, Geo Shield : medium.com/@sahilupadhyay.work
- **Lost Data Recovery** - Recovered Lost data using patching old instance mechanism.
- **Outstanding Collaboration** - Honored by Capgemini for exemplary teamwork and mentorship during a critical product release cycle.
- **PCB Designing competition** - Won first prize for Solar mobile charger development.

SKILLS

- ➢ **Programming**: Java, Python, SQL, Shell Scripting, JavaScript, HTML5, CSS
- ➢ **Big Data & Analytics**: Hadoop, Spark, Hive, Kafka, Pandas, NumPy, Matplotlib, Data Mining, Predictive Analytics
- ➢ **Frameworks**: Spring Boot, Angular, React Native
- ➢ **Cloud & DevOps**: AWS, Azure, Docker, Kubernetes, Jenkins
- ➢ **Databases**: MySQL, MongoDB, Neo4j
- ➢ **AI & Machine Learning Tools**: TensorFlow, PyTorch, OpenAI APIs (GPT models, DALL-E), Hugging Face, Scikit-learn, Google Vertex AI, Azure Machine Learning, IBM Watson, LangChain, Stable Diffusion, Gemini (Google DeepMind), Replit Ghostwriter, Cursor AI IDE, GitHub Copilot, Sora AI
- ➢ **Data Management**: Data Modeling, Data Governance, Data Quality Management, Business Intelligence
- ➢ **Soft Skills**: Program Management, Project Management, Stakeholder Management, Team Leadership, Communication Skills, Problem-solving
- ➢ **Methodologies**: Agile Methodology, Statistical Analysis, Machine Learning