SHIVAM PAL

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EXPERIENCE

American Express   Phoenix, AZ, USA
Software Development Engineer   09/2024 - Present

- Crafted an API using Java & Spring Boot, resolving One data SE data-recall and improving real-time data efficiency by 43%.
- Used AWS Lambda & Step Functions to automate data ingestion and optimize S3 batch processing, boosting performance by 31%.
- Migrated OpenTelemetry logs from Splunk to ELF, integrating Kibana for improved monitoring and faster debugging by 27%.
- Automated data encoding, E2E testing boosting server uptime by 28% and cutting operational costs by $600K.
- Managed one-click deployment of 30+ brokers by automating PG-Admin setup via cloud-init on VM, streamlining MLOps integration.

Arizona State University with Integrated Travel   Tempe, AZ, USA
Team Lead Analytics   07/2024 - 09/2024

- Directed an ML-driven Net-Zero transit project using SQL and R, improving predictive analytics by 19%.
- Supervised multi-source ETL pipelines, improving data accuracy by 22% and consolidating unstructured data for ML model training.
- Streamlined end-to-end ML-pipelines(MLOps) on Redshift & Airflow, reducing model training time by 15%.

Adani Edu. with MCMIT   CG, India
Device Usability Researcher   01/2022 - 07/2022

- Engineered an IoT platform with Node.js and WordPress, increasing user engagement by 23% through UX-driven analytics.
- Implemented Agile workflows to streamline project development, reducing timelines by 32% while assisting in classroom sessions.
- Leveraged Identity Management, Google Cloud Analytics, improving feedback participation by 25%.

Cognizant   TN, India
Programmer Analyst   01/2021 - 12/2021

- Optimized financial data pipelines with Kafka and Spark, achieving a 12% reduction in processing latency.
- Enhanced Azure cloud scalability, leading to an 18% improvement in deployment efficiency with Kubernetes.
- Spearheaded a cross-functional team in a Healthcare Insurer Project, enhancing Medicare data processing by 20% with Spring Boot.
- Orchestrated an automated test framework using Spring, Selenium & TestNG, reducing regression testing time by 32%.

SKILLS

Development Tools	Python, Java, SQL, Shell, C++, JavaScript, Scala, PHP, R, React, Angular, Django, Flask, Spring, Node.js, Go.
Data & Cloud	CI/CD, Git, AWS, GCP, Azure, Splunk, ELF, MongoDB, Docker, Kubernetes, Kibana, Terraform, Jenkins, Redis, Postman, BigQuery,Databricks, Hadoop, Spark, Tensor, Keras, Pandas, NumPy, Tableau, Power BI, Graph QL.
Certifications	CompTIA 2024 Security+, AWS 2024 Solutions Architect Associate, Oracle 2023 FA, IBM DSP.

PROJECTS

Opticomp   07/2024 - 09/2024

- Devised a high-performance optimizer using CUDA & parallel computing, enhancing deep learning inference speed by 26%.
- Designed real-time usage displays with Matplotlib and Tkinter, visualizing top 15 processes, reducing bottlenecks by 30%.
- Deployed XGBoost-based ML algorithms for smart app removal, improving efficiency and reducing usage by 13%.

Tryspec: Virtual Try-On System   08/2023 - 11/2023

- Created an interactive AR-based virtual try-on system with OpenCV & TensorFlow, implementing real-time facial landmark detection.
- Integrated adaptive facial landmark detection and adaptive sizing to personalize accessory fitting.
- Administered interactive product toggling, allowing users to explore styles instantly, increasing engagement by 10%.

EDUCATION

M.S., Information Technology (Project Management),   08/2022 - 05/2024
Ira A. Fulton Schools of Engineering, Arizona State University, AZ,USA   GPA: 4.00
Relevant Coursework: Info. System Development, Analyzing Big Data, ML/DL, Cloud & Computer Arch., and IoT.

B.Tech., Electronics and Communication Engineering,   08/2017 - 05/2021
SRM Institute of Science and Technology, TN, India   GPA: 3.02
Relevant Coursework: Programming in C, Virtual Reality, VLSI Design, Network Protocols, Cryptography.