SEJAL SRIVASTAV

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WORK EXPERIENCE

DevOps Intern | ECTIOS, Remote   June 2024 - August 2024
- Engineered a secure document management system with AWS Amplify Gen 2, integrating S3 for storage and Cognito for role-based access, enhancing security and scalability by 25%.
- Developed a front-end app using Angular and TypeScript, integrating S3 through the Amplify API, reducing data retrieval time by 40% and simplifying file management.
- Streamlined deployments via CI/CD pipeline with AWS CodePipeline and CodeBuild, cutting deployment times by 50% and while incorporating continuous monitoring to optimize workflows

Data Analyst Intern | EXCELERATE PVT. LTD, Remote   June 2023 - July 2023
- Served as project scribe within a 9-member team, accounting data quantitative analysis and troubleshooting for Facebook's SuperHeroU campaign dataset, presenting insights to stakeholders
- Analyzed to collaborate key performance indicators (KPIs) for 11 campaigns, including indicators such as average spend, CPR, CPC, Reach, and Impressions.
- Statistically identified potential for a 14.5% increase in income by excluding campaigns 3 and 10, while also segregating predominant reach from 18-24 years age group, followed by 13-17 years age group.

DataOps Engineer Intern | TIRUPATHI ENTERPRISES, India   May 2022 - April 2023
- Developed a scalable data ingestion pipeline with AWS Kinesis for real-time streaming and AWS Glue for data extraction, automating data flow from multiple sources.
- Reduced latency by 30% and cut data retrieval time from 20 minutes to under 9 minutes by implementing AWS Lambda for real-time transformations, accelerating decision-making for analytics team.
- Integrated inventory into a centralized data warehouse powered by Amazon Redshift, driving cross-departmental analytics and enabling continuous improvement of data-driven decisions

SKILLS

- **Programming:** Python, C++, Shell Scripting.
- **Cloud & DevOps:** AWS (Amplify, S3, CloudFormation), GCP, CI/CD pipelines (Jenkins, AWS CodePipeline, Gitlab CI), Infrastructure as Code (Terraform), Automated Deployments (Ansible), Docker (Containerization).
- **Tools & Platforms**: Git (Version Control System), GitHub, Jira, MS Word, PowerPoint, Excel, Linux (Ubuntu)
- **Agile & Automation:** Agile Methodologies (Scrum), Automated Workflows.
- **Certification:** AWS Certified SysOps Administrator – Associate, Google Cloud Skills Boost Badge, Salesforce DevOps Fundamentals

PROJECTS

Motion Data Library Using VR Based Motion Capture | **LINK**
- Led development of a Python (Django) web application to transform motion data research through real-time literature reviews and flexible ad-hoc taxonomy creation, driving improved collaboration and knowledge sharing.
- Partnered with interdisciplinary teams to design a scalable data platform, combining VR-based motion capture datasets and driving deeper insights into human behavior and interaction patterns in virtual environments.

Web Product Information Retrieval System | LINK
- Implemented a Python-based web crawler using Scrapy, automating 100% of the product information extraction process. This crawler is capable of extracting data from up to 99 web pages, boosting efficiency and ensuring up-to-date product listings.
- Developed a TF-IDF-based search engine that consistently achieves 85% precision in retrieving relevant products. This engine processes user queries, ranks products using cosine similarity, and returns the top 4 most relevant results within a Flask web application.

Sign Language Detection with TensorFlow and OpenCV | LINK
- Developed a real-time sign language detection system using Python, OpenCV, and CNNs, achieving 87% accuracy in recognizing 10 distinct sign language words with MediaPipe Holistic for precise hand and body tracking.
- Processed 10,000+ sign language data points with 21 key hand landmarks to leverage analytical techniques tp enhance model accuracy, reducing detection errors by 15% and improving real-time classification performance.

EDUCATION

Illinois Institute of Technology, Chicago, IL   May 2025
Masters of Computer Science

Malla Reddy College of Engineering (JNTU), Hyderabad, India   June 2023
Bachelor of Computer Science