Pareshkumar Mahyavanshi
Kitchener, Ontario, Canada
Phone: +1 (226) 972-6367
Email: pmahyavanshi13@gmail.com
LinkedIn: https://www.linkedin.com/in/pareshkumar-m-0909b9133/

Professional Summary

Results-driven DevOps and Web Application Developer with 6+ years of experience in cloud automation, infrastructure management, and scalable application development**.** Proven ability to design, develop, test, deploy, and maintain robust software solutions that enhance efficiency and streamline operations. Skilled in workflow optimization, automation, and delivering secure, high-performance systems in Agile environments.

Key Highlights

- **Python Development:** Demonstrated advanced proficiency in **Python for automation** scripts, data processing systems and comprehensive application development.
- **Automation & CI/CD Expertise:** Extensive experience with **Continuous Integration and Continuous Deployment (CI/CD)** tools such as **Apache Airflow, Jenkins, Databricks** along with **GitLab** to facilitate continuous integration and deployment processes.
- **AWS Proficiency:** Highly skilled in implementing and managing solutions on **Amazon Web Services (AWS)**, including but not limited to **Identity and Access Management (IAM**), **Elastic Compute Cloud (EC2), Simple Storage Service (S3), Lambda and Relational Database Service (RDS)** to optimize application performance and security.
- **Data Processing and Management:** Effective in managing large-scale data environments using **Python**, **R** and **SQL** to deliver insightful business solutions.
- **Web Development:** Skilled in developing responsive Web Applications using **Django**, HTML/HTML5, CSS/CSS3 and Bootstrap.
- **Version Control Systems (VCS):** Extensive experience with **GitLab** and **GitHub**; proficient in maintaining code quality and integration using **SonarQube**.

Technical Skills

- **Programming Languages:** Python, R, Bash/Shell scripting
- **Cloud Computing:** Proficient in Amazon Web Services (AWS), including experience with EC2, S3, SNS (Simple Notification Service), SQS, Lambda and IAM
- **Versioning Tools:** GitHub, GitLab
- **Containerization & Orchestration:** Proficient in Docker, Kubernetes, and Terraform for container management and infrastructure as code
- **Application & Web Servers:** Jenkins, Apache Airflow, Databricks**,** SonarQube
- **Frameworks:** Django, Django Rest Framework
- **Databases & File Systems:** AWS RDS, PostgreSQL, SQL, SQLite, Amazon S3, Amazon EFS
- **Web Technologies:** HTML/HTML5, CSS/CSS3, Bootstrap, JSON (JavaScript Object Notation)
- **Tools & IDEs:** PyCharm, Visual Studio Code, Postman, Sublime Text
- **Software & Other Tools:** Microsoft Office 365, Zoom, Matlab, Adobe Suite, Blender
- **Project Management Tools:** Jira, Confluence, Microsoft SharePoint, Planner, Microsoft Tasks

Work Experience

Pythonwise Inc., Irving, Texas, USA

Software Developer (Apr' 2021 – Oct' 2024)

End Client: Prealize Health Inc., Palo Alto, California, USA

- Led the design and implementation of automated software solutions using Agile methodologies and the SDLC, enhancing system functionality and user experience across various platforms.
- Maintained and enhanced pipelines on AWS, utilizing a broad array of AWS services including IAM, EC2, Lambda, S3, Transfer Family, Secrets Manager, Systems Manager, SNS, SQS, Step Functions, Amazon RDS, PostgreSQL, among others, with Docker and Kubernetes for container orchestration, and Terraform for infrastructure as code.

- Automated and processed data batches using Jenkins and Apache Airflow for workflow automation and scheduling, and Databricks for data processing, all managed through GitLab for continuous integration (CI) and continuous deployment (CD).
- Designed and implemented automation scheduling with Apache Airflow, integrating event-driven **workflows** using AWS SNS and Lambda functions for seamless orchestration and execution.
- Develop software in Python, R, SQL, and Shell. Utilize various configuration file formats such as text, JSON, CSV, YAML, and Jinja templates to streamline CI/CD processes.
- Implemented secure data handling practices by designing SFTP processes for encrypted and compressed file transfers, ensuring compliance with high-security standards.
- Conducted code quality assurance with SonarQube integrated into the GitLab CI/CD pipeline to maintain high standards for code quality and compliance.
- Customized and onboarded new client pipelines according to specific requirements, ensuring efficient integration and operation tailored to client needs.
- Collaborated with cross-functional teams including Data Engineering, Data Science, Clinical, Application, and Analytics departments to integrate and automate the entire data pipeline, ensuring seamless operations and meeting client requirements.
- Handled encrypted batch data acquisition via sFTP, processing it in collaboration with data engineering, data science, and data analysis teams, ensuring secure transmission back to clients.
- Engineered and deployed output deliverables, such as enhanced web applications or encrypted text files, via sFTP.
- Conducted extensive system testing and performance optimization by analyzing logs from Docker, Jenkins, Apache Airflow, and Databricks, integrated in AWS CloudWatch.
- Documented all tasks and processes using Microsoft SharePoint and Confluence, with ongoing tracking managed through Jira, Microsoft Tasks, and Microsoft Planner to ensure thorough oversight and effective coordination.
- Engaged in continuous learning and system upgrades to leverage the latest technological advancements for improved performance and capabilities.

Ceramic Tech Inc., Fremont, California, USA

Junior Engineer (Mar' 2019 – Oct' 2020)

- Developed a durable internal web application for detailed management of workflows, enabling continuous monitoring of job processes from start to finish.
- Built and customized job tracking applications using Django, Python, HTML, CSS and SQLite to improve process automation and operational efficiency.
- Developed and implemented a Manufacturing Operating System (MOS) from raw material processing to final product quality checks using Microsoft Office tools (Word, Excel), greatly reducing machining time and increasing productivity and accuracy.
- Worked with various teams to analyze the performance and capabilities of CNC and manual machines, ensuring they met project specifications and standards.
- Collaborated with cross-functional teams to maintain high product quality throughout all production phases.
- Created a new MOS following an in-depth analysis of machine operations, aimed at enhancing teamwork and comfort. This system ensured products met exact project requirements, making work processes smoother for all teams.
- Conducted detailed quality inspections of final products using various tools, including hand tools, pneumatic gauges, Coordinate Measuring Machines (CMMs) and vision-based systems to ensure they adhered to high quality standards.

Education

Master of Science in Learning Technologies and Media Systems Harrisburg University of Science and Technology, Harrisburg, Pennsylvania, USA (Mar' 2018 – Oct' 2020)

Master of Science in Electrical Engineering Northwestern Polytechnic University, Fremont, California, USA (Aug' 2015 – Dec' 2017)

Bachelor of Engineering in Mechanical Engineering Veer Narmad South Gujarat University (VNSGU), Surat, Gujarat, India (Jul' 2008 – Dec' 2012)