Avnish Pal

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Experience

Red Hat   Jul 2021 – Present

Software Quality Engineer
- Designed and implemented automated pipelines for end-to-end testing of cloud-native product certification services, streamlining validation procedures and enhancing the reliability of certified products.
- Developed a chatbot for real-time reporting of test results and status updates within automated pipelines, fostering team communication and improving monitoring efficiency.
- Established a Grafana dashboard and metrics collection service to monitor product certification performance, proactively identifying optimization opportunities for enhanced efficiency and reliability.
- Created and implemented a comprehensive certification testing pipeline for RHEL OS across Azure, GCP, and AWS platforms, ensuring thorough validation of product compatibility and functionality across diverse cloud environments.

Taiyo AI   Sept 2019 – Jun 2021

Software Engineer
- Constructed machine learning pipelines and dashboards for predictive stock data modeling, empowering clients with actionable insights for decision-making and investment strategies.
- Developed custom web scrapers and APIs to gather economic data for analyzing supply chain risks, assisting industries in preparing for disruptions in metal, coal, and other commodities.

Projects

Chat with Document | *Python, Streamlit, LangChain, Ollama, AI*
- Web application enabling users to upload documents and engage in conversational analysis with self-hosted large language models (LLMs), facilitating document understanding and interactive querying.

Command Line Tool for Journaling | *Go, Cobra, CLI*
- CLI for journaling daily accomplishments and generating periodic reports (daily, weekly, monthly, bi-monthly), providing users with an organized method for tracking progress and reflecting on achievements.

Data Analysis Platform | *Dash, Django, Web Development*
- Web platform with modules for visualization, cleanup, and data analysis, allowing users to create custom data pipelines for efficient processing and analysis tailored to their needs.

avni.sh | *Hugo CMS, Blog*
- Computer science blog covering topics such as data structures and algorithms, Go programming language, cloud-native technologies and self-hosting.

Open Source Contributions

CHRIS Project: Added statsmodels plugin to CHRIS project, a distributed data and computation platform.
Hamilton: Containerized examples for Hamilton, a micro-framework for creating dataflows.
Flaskerizer: Minimized complexity and improved performance of hyperlink parsing by 7x.

Education

Bachelor of Technology (Information Technology)

Guru Gobind Singh Indraprastha University

Skills

Programming Languages: Go, Python, C++, JavaScript, SQL, Bash, Java, Dart
Libraries & Frameworks: Cobra CLI, Tekton Pipelines, Streamlit, LangChain, scikit-learn, pandas, TensorFlow, PyTorch, pytest, Dash, Django, Flask, Selenium, Cypress, Apache Airflow, Flutter
Technologies: Kubernetes, OpenShift, OpenStack, Podman, Docker, Jenkins, Git, GitHub, GitLab, PostgreSQL, MySQL, SQLite, MongoDB, Grafana
Platforms: GNU/LINUX, AWS, GCP, IBM Cloud, Terraform, Ansible
Languages: English, German