Avnish Pal

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WORK EXPERIENCE

RED HAT | Associate Software Quality Engineer   Jan 2022 - Present
- Refactored automation pipeline for **OpenShift Operator** Certification **reducing runtime by 40%**.
- Developed a **Python**-based **Google Chat Bot** for reporting and analysis of automation runs to the stakeholders.
- Automated E2E testing of services crucial for certification of **9000+ products** listed on the Red Hat Catalog.

RED HAT | Intern   Jul 2021 - Dec 2021
- Containerized the **YUM package repository** used internally for **RHEL Hardware certification** packages.
- Created automation pipelines for RHEL certification of VM instances on **GCP** and **Azure**.

TAIYO AI | Software Engineer   Sep 2019 - Jun 2021
- Created a **risk analysis** & raw material procurement dashboard using **Grafana**, **Django**, and **PostgreSQL**.
- Developed an API aggregator for technical indicators covering **2500+** companies listed on US stock exchanges.
- **Integrated data streams** for macroeconomic indicators, international trade volume, and maritime traffic.

PROJECTS

BLOCKCHAIN IN JAVA ⬈   Java, GsonBuilder, Blockchain
- Blockchain implementation from scratch in Java including the wallet system, and the transaction processing logic.

CHATGPT DEVELOPER TOOLS ⬈   Python, OpenAI API, AI
- ChatGPT based CLI tool for developers that helps with debugging, documentation and creation of scripts. Available on Python Package Index (PyPI)

SEARCH ENGINE FOR ONLINE COURSES ⬈   Dart, Flutter, Firebase, Android Development
- Review-based **mobile application for searching online courses** provided by different platforms.
- Stored details of **1000+ online courses** provided from multiple platforms with their reviews and upvotes.

DATA ANALYSIS PLATFORM ⬈   Dash, Django, Web Development
- Web platform for visualization, cleanup, and data analysis. Created using tools provided by **pandas** and **scikit-learn**.

OPEN SOURCE CONTRIBUTIONS

- Added statsmodels plugin to CHRIS project, a distributed data and computation platform
- Containerized examples for hamilton, a micro-framework for creating dataflows
- Minimized complexity and improved performance of hyperlink parsing by 7 folds on Flaskerizer

EDUCATION

Bachelor of Technology in IT   Jun 2021
Guru Gobind Singh Indraprastha University

CERTIFICATIONS

Red Hat Certified Specialist in Containers and Kubernetes   Podman, Kubernetes, OpenShift
Red Hat Certified System Administrator (RHCSA)   Bash, Linux, RHEL8

SKILLS

Programming Languages: Python, C++, JavaScript, SQL, Bash, Java
Frameworks: Tekton, Scikit, TensorFlow, Django, Flask, Selenium, Airflow
Technologies: Kubernetes, Docker, Git, GitHub, GitLab, OpenShift, PostgreSQL, MySQL, SQLite, Grafana
Platforms: GNU/LINUX, AWS, GCP, IBM Cloud, Terraform, Ansible