

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 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.
- **Intergrated data streams** for macroeconomic indicators, international trade volume, and maritime traffic.

PROJECTS

STOCK PORTFOLIO STRATEGY SIMULATION

PYTHON, PLOTLY, MACHINE LEARNING

- Simulation and performance analysis of different stock portfolio optimization algorithms.
- Backtesting of all strategies on **11 years of intraday stock market data** and technical indicators.

SEARCH ENGINE FOR ONLINE COURSES

FLUTTER, DART, 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 alongwith their reviews and upvotes.

DATA ANALYSIS PLATFORM

DASH, DJANGO, WEB DEVELOPEMNT

- Web platform for visualization, cleanup and exploratory data analysis.
- Packaged tools provided in **pandas** and **scikit-learn** Python libraries into GUI modules.

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

Red Hat Certified System Administrator (RHCSA)

Podman, Kubernetes, OpenShift

Bash, Linux, RHEL8

SKILLS

Programming Languages: Python, C++, JavaScript, SQL, Bash, Java

Frameworks: Tekton, Scikit, TensorFlow, Django, Flask

Technology: Kubernetes, Docker, Git, OpenShift, PostgreSQL, MySQL, SQLite

Platforms: GNU/LINUX, AWS, GCP, IBM Cloud