Avnish Pal

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WORK EXPERIENCE

RED HAT | Associate Software Quality Engineer   Jan 2022 - Present

- Developed a **Python**-based **Google Chat Bot** for reporting and analysis of automation runs to the stakeholders.
- Refactored automation pipeline for **OpenShift Operator** Certification **reducing runtime by 40%**.
- 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.
- **Intergrated data streams** for macroeconomic indicators, international trade volume, and maritime traffic.

PROJECTS

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 along with their reviews and upvotes.

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.

DATA ANALYSIS PLATFORM ⤤   Dash, Django, Web Development

- 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
Coursework: Operating Systems, Database Management Systems, System Design, Data Structures, and Algorithms

SKILLS

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