

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

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

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.

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 Flakerizer

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, Selenium, Airflow

Technologies: Kubernetes, Docker, Git, GitHub, GitLab, OpenShift, PostgreSQL, MySQL, SQLite, Grafana

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