# Avnish Pal

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## WORK EXPERIENCE

**RED HAT** | SOFTWARE QUALITY ENGINEER                                    Jul 2021 - Present

- Optimized the automation pipeline for OpenShift Operator Certification, resulting in a **40% reduction in runtime**.
- Created a **Python-based Google Chat Bot** to report and analyze automation runs, improving stakeholder communication and collaboration.
- Automated End-to-End testing of critical services for certification of **9000+ products** listed on the Red Hat Catalog.
- Developed automation pipelines for RHEL certification of VM instances on **GCP** and **Azure**, streamlining the certification process and ensuring compliance.

**TAIYO AI** | SOFTWARE ENGINEER                                          Sep 2019 - Jun 2021

- Designed and developed a **dynamic risk analysis and raw material procurement dashboard** utilizing **Grafana**, **Django**, and **PostgreSQL** to provide stakeholders with real-time data-driven insights.
- **Engineered an API aggregator** for technical indicators, providing a comprehensive view of 2500+ companies listed on US stock exchanges, improving market analysis and investment decisions.
- Orchestrated the **integration of multiple data streams** for macroeconomic indicators, international trade volume, and maritime traffic, enabling the creation of predictive models for supply chain optimization.

## 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).

**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, Go
**Frameworks:** Tekton, Scikit-learn, 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