# **Avnish Pal**

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### **WORK EXPERIENCE**

#### **RED HAT | SOFTWARE QUALITY ENGINEER**

Jul 2021 - Present

- Designed **pipelines** for end-to-end testing of product certification services, reducing bug reporting time by 50%.
- Enhanced stakeholder collaboration with a **chatbot** for reporting and analysis of automation results.
- Developed RHEL OS certification pipelines for VMs on GCP and Azure, ensuring compliance.

#### TAIYO AI | SOFTWARE ENGINEER

Sep 2019 - Jun 2021

- Improved stock market analysis and decision-making through an API aggregator for technical indicators.
- Developed a real-time data-driven dashboard for risk analysis and procurement insights for raw materials.
- Enabled **predictive modeling** for supply chain disruptions by integrating diverse data streams like maritime traffic, international trade volume, and macroeconomic indicators.

### **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

#### **CHRIS PROJECT** ✓

• Added statsmodels plugin to CHRIS project, a distributed data and computation platform.

#### HAMILTON 2

• Containerized examples for Hamilton, a micro-framework for creating dataflows.

#### FLASKERIZER

• Minimized complexity and improved performance of hyperlink parsing by 7 folds on Flaskerizer.

### **FDUCATION**

### **Bachelor of Technology (Information Technology)**

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:** Go, Python, C++, JavaScript, SQL, Bash, Java **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