

# 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).

### 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 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-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