

# Avnish Pal

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## WORK EXPERIENCE

### RED HAT | ASSOCIATE SOFTWARE QUALITY ENGINEER

Pune, India | Jan 2022 - Present

- **API and Integration Testing:** Implemented unit and integration tests for all the API services associated with OpenShift Operator Certification.
- **Chat Bot for Status Updates:** Created a Python based chat bot for hourly automation status updates.
- **File Server:** Added updation and deletion operations to a Django based file server.

### RED HAT | INTERN

Pune, India | Jun 2021 - Dec 2021

- **RHEL Certification:** Implemented automation for testing RHEL beta OS builds on GCP and Azure.
- **Monitoring Dashboard:** Created a Django dashboard for monitoring of OS image builds

### TAIYO AI | SOFTWARE ENGINEER

Remote | Sep 2019 - Jun 2021

- **Analytics Dashboard:** Created Grafana and Django based procurement analytics dashboards for clients such as Tata Steel, Bouygues, and Bloomenergy.
- **Trading Agent:** Contributed on a trader agent that benchmark-ed at 22% annual returns, consistently beating S&P 500.
- **Asset Recommendation Tool:** Created an asset recommendation tool for investors that shortlists the top 10 assets from S&P 500 index for investment.

## PROJECTS

### STOCK PORTFOLIO OPTIMIZATION STRATEGIES

PYTHON, PYPORTFOLIOOPT, DJANGO, DASH, ML

Created modules for fetching, cleaning and processing intraday OHLC data from NSE. Backtested portfolio optimization algorithms in a stock market simulation environment.

### DATA PIPELINE GUI

PYTHON, DJANGO, DASH, DATA ANALYSIS

End-to-End data science pipeline application. Supports data import, processing, cleaning, visualization, machine learning algorithms and export.

### FLUTTER MOBILE APPLICATION

DART, FLUTTER, FIREBASE, ANDROID DEVELOPMENT

Search engine for online learning resources. Supports user contributions, reviews, and upvotes.

### STOCK SCREENER

PYTHON, DASH, PANDAS, DATA ANALYSIS

An interactive data visualization application developed in Python, with the help of Dash, yfinance and Pandas.

### PERSONAL PORTFOLIO AND BLOG

JEKYLL, BOOTSTRAP, BLOG

Jekyll based website hosted on Netlify.

## EDUCATION

### Bachelor of Technology in IT

Delhi, India | Jun 2021

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

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

## 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

**Frameworks:** Tekton, Scikit, TensorFlow, Django, Flask

**Technology:** Kubernetes, Docker, GIT, OpenShift, PostgreSQL, MySQL, SQLite

**Platforms:** Linux, AWS, GCP, IBM Cloud