

Avnish Pal

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EXPERIENCE

- Red Hat** Pune, India
Associate Software Quality Engineer January 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** Pune, India
Intern June 2021 - December 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** Remote
Software Engineer September 2019 - June 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:** Created an asset recommendation tool for investors that shortlists the top 10 assets from S&P 500 index for investment.

PROJECTS

- Simulation of Stock Portfolio Optimization strategies:** 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:** End-to-End data science pipeline application. Supports data import, processing, cleaning, visualization, machine learning algorithms and export.
- Flutter Mobile Application:** Search engine for online learning resources. Supports user contributions, reviews, and upvotes.
- Stock Tracker:** An interactive data visualization application developed in Python, with the help of Dash, yfinance and Pandas.
- bovem.netlify.app:** A Jekyll based website hosted on Netlify.

SKILLS

- Languages:** Python, C++, JavaScript, SQL, Bash, Java
- Frameworks:** Tekton, Scikit, TensorFlow, Django, Flask
- Tools:** Kubernetes, Docker, GIT, OpenShift, PostgreSQL, MySQL, SQLite
- Platforms:** Linux, AWS, GCP, IBM Cloud
- Concepts:** Operating Systems, Database Management Systems, System Design, Data Structures and Algorithms

EDUCATION

- Guru Gobind Singh Indraprastha University** Delhi, India
Bachelor of Technology - Information Technology July 2017 - June 2021

CERTIFICATION

- Red Hat Certified Specialist in Containers and Kubernetes:** Podman, Kubernetes, OpenShift 4
- Red Hat Certified System Administrator (RHCSA):** Bash, RHEL8

OPEN SOURCE CONTRIBUTIONS

- Improved link parsing performance of flaskerizer by 7 folds.
- Containerized NodeJS based AIS API.