

DHRUV BHIRUD

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OBJECTIVE

Software Developer with a strong background in Python, Django, Flask, and cloud technologies. Proven expertise in designing and implementing scalable software solutions. Passionate about developing innovative, high-performance applications and leveraging technology to optimize workflows and decision-making processes.

EXPERIENCE

Software Developer

Arsalon Automation Systems Pvt. Ltd.

Sep 2024 - Present

Pune, Maharashtra

- Developed and automated trading systems using Python, focusing on robo and algorithmic trading.
- Created a backtesting application to display historical data and data extracted from executed strategies. The application allows for comparison of multiple parameters on a single strategy to optimize profit and loss.
- Developed backtesting frameworks to test the performance of trading algorithms on historical data.
- Implemented algorithmic strategies for efficient trade execution.
- Using AWS cloud services achieved secure and scalable storage operations.
- Developed Django models and SQL queries for implementing live trading strategies based on back-tested results.
- Optimized database performance and ensured data consistency in real-time trading applications.
- Implemented trading strategy monitoring and reporting dashboards using Django for enhanced decision-making and strategy adjustments.
- Developed a quiz application using Django, incorporating user login, random question set generation from a large pool per user, progress tracking, and a UI for the quiz dashboard.
- Integrated database storage for quiz responses upon submission, enabling subsequent generation of marksheets and certificates.
- Hands-on experience in the development, testing and deployment of automated trading strategies, ensuring compliance with market regulations and risk management protocols.

SKILLS

Programming Languages

Python, Java, JavaScript

Frameworks

Django, Flask, Spring Boot, Angular

Database Technologies

MySQL, Redis, MongoDB

Web Technologies

HTML, CSS, Node.js

Tools

VS Code, PyCharm, Android Studio, IntelliJ IDEA, Git

Soft Skills

Active Listening, Quick Learning, Adaptability, Problem Solving, Self-Motivation

Additional Skills

API Integration

PROJECTS

- **Live Trading System (Django)** Designed and implemented a Django-based live trading system to execute trading strategies in real-time. Integrated backtesting results with live systems, ensuring seamless transitions from testing to execution. Focused on real-time data handling, database performance, and API integrations for trading execution.
- **Backtesting Application (Flask)** Developed a Flask-based application for backtesting trading strategies, analyzing historical data, and optimizing parameters to enhance profitability. Enabled users to compare multiple parameters for effective strategy evaluation and decision-making.

- **Quiz Application (Django)** Developed a Django-based quiz application featuring user login, random question set generation from a large pool per user, progress tracking, and a UI for the quiz dashboard. Stored responses in the database upon submission for generating marksheets and certificates.
- **TV Time - A Movie Watchlist App** Developed a movie watchlist application leveraging the OMDb and IMDb APIs, along with the Streaming Availability API. Utilized Java Spring Boot for backend development and Angular for frontend development.
- **DBVPlayer** Created an Android-based video player using ExoPlayer. The app features a dual-view system, displaying videos stored on internal storage in both folder view and list format, across two separate activities.
- **Network Intrusion Detection System using ML** Designed and developed an intrusion detection web application using Python Flask. Integrated machine learning models based on Support Vector Machine (SVM) and Random Forest algorithms, trained on the KDD dataset.

EDUCATION

Bachelor of Computer Science , Pune University CGPA: 8.58/10.0	2019 - 2023
Higher Secondary Education , Pratibha Jr. College Percentage: 63.23%	2017 - 2019
Primary Education , Vidyapeeth School / M.S.S. Highschool Percentage: 80%	2007-2017

CERTIFICATIONS

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|---|---------------------|
| • TCS NQT (76.26%) | AUG 2024 |
| • Java Full Stack Development - Symbiosis | OCT 2023 - APR 2024 |
| • Job Ready Employ-ability Skills - Wadhvani Foundation | FEB 2024 |
| • Software Engineering and Agile Software Development - Infosys Springboard | JUN 2022 |
| • Career Skills - TCS iON | MAY 2021 |

PUBLICATIONS

- Cyber security Intrusion Detection Adopting a Machine Learning Approach - IJARESM
- Proposed Technical Study on Cybersecurity Intrusion Detection Utilizing a Machine Learning Approach - IRJMETS