

# DIXIT NANDANIYA

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🔗 <https://github.com/dixituwindsor>

🌐 <https://dixituwindsor.github.io/portfolio>

## Professional Summary

Experienced Python Developer with a strong background in building scalable, high-performance applications in the **financial trading** and **financial services** domains. Proficient in **Python**, **multithreading**, and **asynchronous programming**, with a deep understanding of **back-office operations** and **development projects** that drive technological **innovation**. Skilled in applying design patterns, object-oriented programming (OOP), and software engineering principles to develop robust and maintainable systems. Proven success in working with asynchronous programming and API integrations in **commodities trading** and **financial platforms**.

## Education

### University of Windsor

Masters of Applied Computing

May 2023 – August 2024

Windsor, ON, Canada

- **Relevant Coursework:** Advanced Software Engineering, Advanced Data Structure, Advanced Database Topics

### Ganpat University

Bachelor of Technology in Computer Engineering

July 2018 – May 2022

Mehsana, GJ, India

- **Relevant Coursework:** Machine Learning, Data Structures and Algorithms, Database Management Systems

## Technical Skills

**Programming Languages:** Python, Java, C, SQL

**Database:** MySQL, MongoDB, SQLite

**Tools:** PyCharm, Pandas, Numpy, Flask, REST APIs, Jupyter Notebook, Windows, Ubuntu, Git, GitHub, Django

**Concepts:** Multithreading, Asynchronous Programming, Object-Oriented Programming, Design Patterns

**Technology Knowledge:** Amazon Web Services, Machine Learning, Mathematics

**Soft Skills:** Problem-solving, Team and Individual work, Debugging, Agile Project Management

## Experience

### Coretus Technologies

Python Developer

January 2022 – January 2023

Rajkot, GJ, India

- Developed and maintained **algorithmic trading applications** using Python, improving back-end systems for faster and more efficient trade execution in financial trading.
- Created a **Trade Manager** app that processed over 1000 API calls per second, optimizing real-time trade execution.
- Implemented asynchronous and multi-threaded programming with **asyncio** and **aiohttp**, reducing trade processing time by 400% and utilizing the power of CPU effectively.
- Built and integrated **RESTful APIs** with Flask to streamline data flow between financial trading platforms and databases.
- Analysed large financial datasets with **pandas** and **NumPy**, delivering real-time insights for traders.
- Applied **OOP principles** and **design patterns** to ensure scalable and maintainable code.
- Collaborated with stakeholders to translate business needs into technical solutions, supporting smooth **financial trading operations** and **development projects**.

## Projects

### Trade Manager (Automated Trading Application)

**Technologies/Skills:** Python, PyQt5, MongoDB, WebSocket, Git, Automated Trading

- Developed an automated trading platform during my internship that connects broker accounts, subscribes to trading strategies, and executes trades automatically. The application supports real-time data fetching via **WebSocket** and uses **MongoDB** for data storage. This project demonstrates my expertise in Python, real-time data handling, and financial systems—highly relevant to the commodities or financial trading industry.

### YouTube Trending Data Analysis

**Technologies/Skills:** Python, AWS (S3, Glue, Lambda, QuickSight), Pandas

- Conducted an analysis of YouTube trending data across multiple countries, leveraging **AWS services** for data storage and processing, and **QuickSight** for data visualization. Used **Lambda functions** for data cleaning and **Pandas** for data analysis, aligning with cloud-based development and Python skills required in the job.

**WiseBridge (Design Patterns Project)**

**Technologies/Skills:** Java, Firebase, OOP, CRAP Design Patterns

- Developed an Android application connecting students and alumni, following **SCRUM methodology** and using **design patterns** such as **Adapter**, **Strategy**, and **Prototype** to ensure high cohesion and low coupling. This project highlights my strong understanding of **OOP principles** and design patterns, aligning with the job’s emphasis on solid software engineering practices.

**AdventureMinds (Web Application)**

**Technologies/Skills:** Python, Django, SQLite, HTML, CSS

- Built a web application for finding travel buddies using **Python and Django** with a **SQLite** backend. This project demonstrates my proficiency in Python web development, database interactions, and full-stack development, aligning with the firm’s focus on Python expertise.

Certifications

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|---|-------------------------------------|
| <b>The Data Science Course: Complete Data Science Bootcamp 2024</b><br><b>Skills:</b> Python, Pandas, NumPy, Probability, TensorFlow, Machine Learning, Data Analysis, Scikit-Learn | September 2024<br>Udemy             |
| <b>Agile Software Development: Clean Coding Practices</b><br><b>Technologies/Skills:</b> Python, AWS (S3, Glue, Lambda, QuickSight), Pandas   | September 2024<br>LinkedIn Learning |
| <b>Introduction to Programming using Python</b><br><b>Technologies/Skills:</b> Python Programming Language  | September 2021<br>Microsoft         |

References

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Professional references, including my past employer, are available upon request. Ready to Relocate to any location in Canada.