

# MAYANK PALIWAL

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## Summary

Results-oriented Python Developer with practical experience in the Django framework, focused on building scalable web applications. Skilled in building scalable, data-driven web applications, including a task management app and a real-time chat platform. Committed to leveraging my skills to deliver high-performance applications while exploring advancements in NLP and AI.

## Education

### IIMT University

MCA - AI & ML, CGPA - 8.4

Meerut, U.P

September, 2024

Master of Computer Applications specialization in Artificial Intelligence and Machine Learning

## Relevant Experience

### Walmart Remote

#### Software Engineering Intern

June 2024 – August 2024

- Developed an interactive Dash application for data visualization and analysis of sales and profitability metrics, leveraging Python and Dash frameworks to enhance business intelligence.
- Implemented a comprehensive test suite and automated it with bash scripting, optimizing testing workflows and increasing test coverage.
- Designed and deployed an intuitive user interface using modern front-end technologies, improving usability and boosting user engagement with the application.

## Projects

### To-Do Application

#### Python, Django, Django REST Framework

- Built a user-friendly To-Do application utilizing Django to manage tasks effectively.
- Integrated key Django features, including Django Authentication for user management and Django Admin for task management.
- Implemented task creation, updating, and deletion functionalities.
- Developed RESTful APIs using Django Rest Framework to facilitate data exchange and interaction between the front-end and back-end.
- Planning to implement Docker for deployment and scalability in future iterations.

### Real-Time Chat Application

#### Python, Flask, React, WebSocket, PostgreSQL, Docker, Git

- Developed a real-time chat application utilizing React for the front-end and Flask for the back-end, delivering a responsive and modern UI with instant messaging capabilities.
- Engineered a WebSocket-based communication protocol with Flask, enabling seamless real-time messaging and dynamic user status updates, reducing message latency.
- Managed user data and message history with PostgreSQL, implementing efficient database design to

ensure reliable data storage and rapid retrieval.

- Deployed the application using Docker, achieving scalable and isolated environments that ensured consistent performance across deployments.
- Leveraged Git for version control, facilitating effective team collaboration and maintaining code integrity throughout development.

## **Skills & Interests**

**Programming Languages:** Python, SQL

**Frameworks & Libraries:** Django, Django Rest Framework, Flask, React

**Developer Tools:** Git, GitHub, Docker, AWS, GCP, Linux, Windows

**Database Technologies:** PostgreSQL, MySQL, MongoDB

**Techniques & Tools:** Data Structures and Algorithms, Data Analysis, Machine Learning, Natural Language Processing (NLP), RESTful APIs

## **Certifications**

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| ● <b>Python Programming by Microsoft</b>     | November 2023  |
| ● <b>Test Automation Engineer by UI Path</b> | September 2024 |