

MAYANK PALIWAL

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Summary

Results-driven software engineering graduate with a robust foundation in Python, AI, and machine learning. Skilled in full-stack development with hands-on experience in Python, Django/Flask, React, and PostgreSQL. Proven track record in developing impactful applications, such as real-time chat systems and ATS-compatible resume scanners. Adept at leveraging modern technologies to drive innovation and enhance user experiences.

Education

IIMT University

MCA - AI & ML, GPA - 8.0

Master of Computer Applications specialization in Artificial Intelligence and Machine Learning

Meerut, U.P

September, 2024

CCS University

Bachelor of Arts in Computer Science, Minor in Mathematics

Meerut, U.P

September, 2020

Relevant Experience

Walmart Remote

Software Engineering Intern

2024

June 2024 – August

- 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

Smart Resume Scanner

Python, Django, React, PostgreSQL, NLP, ML, Git

August 2024 – Present

- Developed an ATS-compatible resume and cover letter scanning application, achieving 90% accuracy in matching resumes to job descriptions, enhancing job search efficiency.
- Implemented secure user authentication and authorization features, including encrypted login and signup functionalities, safeguarding user data and improving account security.
- Applied Natural Language Processing (NLP) and Machine Learning (ML) algorithms to analyze and interpret resumes and job descriptions, increasing match accuracy by 30% compared to conventional methods.
- Engineered robust REST APIs, managing over 1,000 requests per day, ensuring high application performance and scalability.

- Refined features based on feedback from 200+ beta testers, improving precision of match algorithms and optimizing user interface design.

Real-Time Chat Application

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

May 2024 – July 2024

- 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: C, Python, SQL, R, HTML/CSS, JavaScript

Frameworks & Libraries: Django, Flask, FastAPI, React, TensorFlow, Pandas, NumPy

Developer Tools: Git, Docker, Windows, Linux, VS Code, Google Cloud Platform, AWS

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

Interests: Open Source Projects, Competitive Programming, Technology Trends, Gaming, Music

Languages: English, Hindi

Certifications

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| ● Python Programming by Microsoft | November 2020 |
| ● Data Analytics Professional Certificate by Google | October 2022 |
| ● Linux by IFACET | February 2023 |
| ● Test Automation Engineer by UI Path | September 2024 |