

PRATEEK BHARDWAJ

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OBJECTIVE

Python Backend Developer with a B.Tech in Software Engineering and a track record of improving backend performance and developing scalable, secure web applications. Experienced in building websites using React and integrating them with robust Python-based backend systems. Proficient in Python, C++, and modern frameworks like Django and Flask. Skilled in applying Machine Learning and Artificial Intelligence to real-world problems, including image classification and biometric recognition. Adept at cross-functional collaboration, real-time API integrations, and implementing practical, high-impact solutions with attention to cybersecurity principles.

EDUCATION

Bachelor of Technology, SRM Institute of Science and Technology

2020 - 2024

SKILLS

Languages	Python, C++, SQL, C
Frameworks	Flask, Django, React, Langchain, Fastapi
Databases	MySQL, PostgreSQL, MongoDB
Tools	Git, VS Code, Postman
Technologies	Machine Learning, Deep Learning, Artificial Intelligence, OpenCV, TensorFlow
Soft Skills	Communication, Critical Thinking, Time Management, Problem Solving

EXPERIENCE

Python Developer Intern

Hestabit

Noida, India(On-site)

- Developed 5+ scalable backend features using Flask and Django, increasing application performance by 30%.
- Integrated 3 real-time APIs (payment, geolocation, notifications), enhancing overall user experience and product functionality.
- Championed Test-driven Development (TDD) across three project teams, leading to a 25% reduction in post-deployment bugs and improved code quality standards.
- Spearheaded the migration of legacy API endpoints to FastAPI, improving response times by 35% and enabling scalable microservices architecture.
- Created Swagger documentation to streamline API onboarding and reduce integration time by 25%.

Python Developer Intern

Brihat Infotech

Ranchi, India(Remote)

- Worked on real-time projects integrating Python-based backend systems with frontend tools for improved workflow efficiency.
- Enhanced Blender scripts to automate cabinet modeling and design processes, simplifying code structure and improving maintainability.
- Contributed to real-world application development with scalable solutions, collaborating closely with cross-functional teams.
- Applied problem-solving and software design skills to optimize existing modules and streamline project delivery.
- Worked on real-world AI-driven projects, designing and implementing machine learning models for data analysis, predictive insights, and automation, which improved decision-making and optimized business workflows.

PROJECTS

Deepfake Detection System. Built a deep learning model using Python, OpenCV, and TensorFlow to analyze 10,000+ images for media authenticity. Achieved over 85% accuracy in classifying manipulated media and deployed a working demo using Flask. Integrated preprocessing steps like face alignment and MTCNN to enhance feature consistency and detection accuracy. Compared CNN and Transformer-based models for optimal trade-off between accuracy and speed.

Iris Detection System. Developed an iris recognition system using OpenCV and Keras, with GUI support for real-time biometric demonstrations. Implemented contour detection, thresholding, and filtering techniques to boost segmentation accuracy by 20%. Integrated encoding and pattern matching for authentication workflows in security applications. Achieved over 90% precision on benchmark datasets through robust evaluation and testing.

CERTIFICATIONS

- Python (Coursera) – Built scalable applications and automation scripts with Python best practices.
- Cloud Computing (NPTEL) – Designed and deployed cloud-native microservices in distributed environments.
- CyberSecurity (Honeywell) – Engineered proactive systems for threat detection and secure application layers.

EXTRACURRICULAR ACTIVITIES

- Contributed to open-source projects, submitting pull requests and resolving issues on GitHub.
- Mentored juniors in Python and web development, and provided peer tutoring in Data Structures and Algorithms.