PALAK BAJPAI

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EDUCATION

MAHARISHI INSTITUTE OF MANAGEMENT Bhopal, M.P
Bachelor of Computer Application (MCA) 2015

MAHARISHI INSTITUTE OF MANAGEMENT Bhopal, M.P
Bachelor of Computer Application (BCA) 2017

WORK EXPERIENCE

BUCKSTOX DIGITAL SERVICE LLP
Associate Software Engineer Jun 2022 – Present

- Utilized Python to build backend services and APIs, enhancing application performance and scalability.
- Built RESTful APIs using Django REST framework, supporting seamless communication between frontend and backend systems.
- Developed and maintained Django-based applications, implementing user authentication, session management, and data validation.
- Leveraged Pandas for data analysis and transformation, improving data processing efficiency in ETL workflows.
- Developed efficient data processing functions with Numpy arrays, reducing computation time for complex datasets.
- Developed and integrated independent microservices using REST APIs, reducing system downtime during updates.
- Designed database schemas and managed MySQL databases, ensuring data integrity and improving query performance.
- Implemented MongoDB as a NoSQL solution for flexible data storage, enhancing the application's scalability.
- Used Git/GitHub for version control, facilitating collaborative development and managing code changes effectively.
- Ensured web accessibility by following HTML best practices, making applications user-friendly for diverse audiences.
- Styled web pages using CSS to create consistent, visually appealing designs across different browsers and devices.
- Wrote reusable JavaScript functions and modules, reducing code redundancy and enhancing maintainability.
- Built interactive, single-page applications (SPAs) using React, improving the application's performance and user experience.
- Communicated regularly with clients to gather requirements, ensuring that project outcomes aligned with their expectations.
- Collaborated with stakeholders to define project goals and timelines, aligning technical solutions with business needs.

PROJECTS

Inventory Management System

- Developed an inventory management system for a retail client to track stock levels, manage product information, and optimize supply chain operations. The system provided real-time updates on inventory status and automated notifications for low stock, reducing stockouts and improving operational efficiency.
- Built the backend using Python and Django, developing RESTful APIs to handle product and inventory data. Designed and managed a MySQL database schema to store inventory details, stock levels, and product information, optimizing data retrieval and ensuring consistency.
- Implemented a microservices approach, dividing features into independent services (e.g., stock management, product catalog), which improved scalability and made updating individual components easier.
- Used Git/GitHub for version control, following a branching strategy to manage development and deployment efficiently. Actively participated in all SDLC phases, from requirements gathering to testing and deployment, ensuring alignment with client requirements and efficient delivery.
- Reduced stockouts by 25% through automated stock tracking and alerts. Improved data accuracy by 30%, enabling better forecasting and inventory planning.
- **Technologies used** - Python, Django, MySQL, Git/GitHub, Microservices, SDLC

Customer Feedback and Review Management System

- Developed a customer feedback management system for an e-commerce platform, allowing the company to gather, store, and analyze user feedback. The system enabled better insights into customer satisfaction and product quality, supporting continuous improvement initiatives.
- Built RESTful APIs in Django to manage user feedback, including review submission, retrieval, and reporting functionalities. Designed a MySQL database to store customer feedback, creating efficient queries for retrieving and analyzing reviews.
- Deployed a microservices architecture, splitting core functionalities (e.g., feedback collection, reporting, and notifications) into separate services for better modularity. Used Git for version control, managing code changes and collaborating with team members through GitHub.
- Engaged in SDLC processes, including requirements gathering, testing, and deployment, ensuring that the project met client expectations and quality standards. Increased response time to customer feedback by 40%, allowing for faster resolution of issues. Enabled data-driven insights into customer satisfaction, leading to a 20% improvement in product quality based on feedback.
- **Technologies used** - Python, Django, MySQL, Git/GitHub, Microservices, SDLC

CERTIFICATIONS

PYTHON FOR AI/ML - Great Learning

ADDITIONAL

Technical Skills: Python, Django, Pandas, Numpy, Microservices, MySQL, MongoDB, Git/Github, SDLC, HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, React, Client Handling, Stakeholder Management.
Languages: Fluent in English and Hindi, both.