Jay D Patel

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SUMMARY

- Experienced Software Developer with a **4-year** background in Python and Node with a strong foundation in software development concepts, algorithms, and data structures.
- Optimized API performance by employing caching strategies and pagination techniques, resulting in improved response times.
- Practical involvement in querying both relational databases like PostgreSQL, MySQL, and Oracle, as well as non-relational databases.
- Worked on diverse architectural patterns (Monolithic Apps, Microservices, Serverless), tailoring testing methodologies for each.
- Implemented robust strategies for comprehensive database optimization, seamlessly scaling databases to manage increased workloads.
- Executed comprehensive testing strategies, including unit testing with Pytest, ensuring high application robustness and reliability.
- Implemented responsive design patterns in React and Angular for optimal user experiences across diverse devices and screen sizes.
- Enhanced platform security through robust user authentication and authorization using Allauth, OAuth, and JWT tokenization.
- Developed RESTful APIs using Diango REST Framework, ensuring seamless communication between front-end and back-end systems.
- Partnered with DevOps to deploy **Terraform** modules, ensuring microservices consistency across development and production.
- Optimized performance by targeting the slowest 20% of the code, adhering to the 80/20 rule and achieved 80% improvement.
- Stayed up-to-date with latest trends and technologies in software development and applied them to enhance the software performance.

EXPERIENCE

SOFTWARE DEVELOPER, Applied Informatics, May 2022 – Current

- Integrated RESTful APIs into the React application, enabling seamless communication with the backend for data retrieval and updates.
- Utilized Django's Object Relational Mapping (ORM) for streamlined database operations and data consistency (ACID compliance).
- Used JavaScript for Dynamic Page Functionality, popup screens, and user entry validations.
- Integrated third-party APIs and payment gateways into the React Js, ensuring secure online transactions for customers.
- Participate in code reviews to ensure adherence to coding standards and best practices.
- Proficient in writing unit tests using Pytest, a widely adopted testing framework in the Python ecosystem.
- Collaborate with cross-functional teams to integrate software components and resolve technical issues.
- For Real time inventory update and live chat support, I used websocket functionality to enhance interactivity for the users.
- Developed webhook based automated order fulfillment notifications for streamlined ecommerce payment processes.
- Used caching policies within CDN setups, reducing server load and bandwidth consumption while maintaining content freshness.
- Orchestrated **Docker** containers for Python and Node.js applications, ensuring consistency in development, testing, and production.
- Managed Kubernetes clusters, configuring nodes, optimizing performance and ensuring high availability for mission-critical applications.
- Communicated bugs and issues found through the automation process to the development team.
- Managed and optimized microservices data storage using popular RDBMS systems like MySQL and PostgreSQL.

PYTHON DEVELOPER, EbizzInfotech, Jan 2019 - July 2021

- Utilized **Django** ORM for modeling and interacting with PostgreSQL and MySQL databases, ensuring efficient data storage and retrieval.
- Ensured Django app security with best practices, preventing SQL injection and XSS vulnerabilities.
- Defined well-structured classes and interfaces in Python, adhering to OOD principles for encapsulation, abstraction, and inheritance.
- Utilized Django Debug Toolbar to identify and resolve performance bottlenecks, ensuring optimal application performance.
- Tuned database performance by optimizing SQLAIchemy queries, indexing strategies, and caching mechanisms.
- Created functions, triggers, views, and stored procedures using MySQL and PostgreSQL relational Databases.
- Executed cross-browser testing for web apps using tools like Selenium in conjunction with Python and Node.js test frameworks.
- Put to use Amazon **DynamoDB** as a NoSQL database for storing and retrieving chatbot-related data, ensuring low-latency and high-throughput operations.
- Applied machine learning for predictive analytics in inventory management, minimizing stockouts and reducing overstock situations.
- Used Python libraries Pandas, NumPy, and Matplotlib to create charts that display a patient's lab results.
- Established proactive monitoring practices using **Datadog**, leading to early detection of performance bottlenecks and potential issues.
- Where Server needs to send data to clients in a low-latency manner. I used SSE technology.
- Integrated CI/CD with version control systems such as **Git**, automating the deployment process triggered by code changes.
- Conducted thorough testing of REST APIs, including unit testing and integration testing, to validate functionality and identify potential issues.

EDUCATION

MS in Computer and Information system, New Jersey Institute of Technology BE in Mechanical Engineering, Gujarat technological University

TECHNICAL SKILL

- Front-end Tech: React JS, Angular, HTML, CSS, SASS, LESS, TypeScript, jQuery, JSON, XML, BootStrap, Material UI
- Programming Languages: Python, jinja, Node.js, C sharp, Java, Go, Javascript, SQL and NoSQL
- Web Frameworks: Django, Flask, FastAPI, CherryPy, WebPy, React, Angular, Vue, Jupyter Notebook, Google Colab
- Database Technologies: MySQL, PostgreSQL, MongoDB, Redis, Neo4j, Cassandra, Firebase
- Python Libraries: NumPy, Pandas, Matplotlib, Seaborn, BeautifulSoup, SQLAlchemy, Celery, Django REST framework
- Testing Tools: pytest, unittest, pdb, cProfile
- Architecture tools: RabbitMQ, Kafka, Jenkins, gRPC