Jay D Patel

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SUMMARY

- Experienced Developer with **3+ years** of experience in the design, development, testing, and maintenance of software solutions.
- Utilized **React** to develop dynamic and interactive front-end components, enhancing the user experience and performance.
- Demonstrated proficiency in **Python** and **Javascript** language through experience in developing backend logic, APIs, & business logic.
- Developed well-organized classes and interfaces in **Python**, following object-oriented programming principles.
- Identifying and resolving software defects reported by users or detected through **testing**, including unit testing with Pytest.
- Experience with **querying** both relational and non-relational databases in practical scenarios.
- Identifying and addressing performance **bottlenecks** in the application, such as slow-loading pages or inefficient database queries.
- Actively participated in **Agile** development processes, including sprint planning, daily stand-ups, and retrospectives, to deliver iterative improvements to the e-commerce platform.
- Contributed to all phases of the **software development life cycle (SDLC),** from requirements gathering to deployment.
- **Communicating** effectively with team members to discuss technical solutions, share knowledge, and coordinate work.
- **Optimized** performance by targeting the slowest 20% of the code, adhering to the 80/20 rule and achieved **80%** improvement.
- Implemented serverless architectures using **AWS** Lambda functions written in **TypeScript, Python & JavaScript**.
- Proficiency in **documentation** with code comments, user manuals, technical documentation, version control annotations, and bug reports.

EXPERIENCE

SOFTWARE DEVELOPER at Applied Informatics   *May 2022 – Current*

- Integrated **RESTful APIs** into the React application, enabling seamless communication with the backend for data retrieval and updates.
- Solving Debugging issues in both frontend and backend code to understand the root cause of the problem.
- 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.
- Staying informed about emerging security threats and proactively addressing them through code updates or configuration changes.
- 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.
- Collaborating with other developers on shared codebases, resolving merge conflicts, and coordinating development efforts.
- Developed **webhook**-based automated order fulfillment notifications for streamlined e-commerce payment processes.
- Orchestrated **Docker** containers, ensuring consistency in development, testing, and production.
- Managed **Kubernetes** clusters, configuring nodes, optimizing performance and ensuring high availability for mission-critical applications.
- Implemented continuous integration and deployment pipelines using Jenkins to automate the build, test, and deployment.

FULL STACK DEVELOPER at EbizzInfotech   *Jan 2019 - July 2021*

- Utilized Django ORM for modeling and interacting with **PostgreSQL** and **MySQL** databases, ensuring efficient data storage and retrieval.
- Conducted thorough testing of **REST APIs**, including unit testing and integration testing, to validate functionality and identify potential issues.
- Utilized Django Debug Toolbar to identify and resolve performance **bottlenecks**, ensuring optimal application performance.
- Tuned database performance by optimizing **SQLAlchemy** queries, indexing strategies, and caching mechanisms.
- Created functions, triggers, views, and stored procedures using MySQL and PostgreSQL relational Databases.
- Executed cross-browser automation testing for web apps using tools like **Selenium** in conjunction with Python and Node.js test frameworks.
- Developed **automation** scripts using **TypeScript** and shell scripting to streamline repetitive tasks such as deployment, testing, and monitoring of the e-commerce platform.
- 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.
- Integrated CI/CD with version control systems such as **Git**, automating the deployment process triggered by code changes.

EDUCATION

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

TECHNICAL SKILL

- **Front-end:** React.js, Angular.js, HTML, CSS, SASS, TypeScript, JSON, BootStrap.
- **Languages:** Python, jinja, Node.js, C# sharp, Java, Go, Javascript, SQL and NoSQL.
- **Frameworks:** Django, Flask, FastAPI, React, Angular, Vue, Jupyter Notebook, Google Colab.
- **Databases:** MySQL, PostgreSQL, MongoDB, Redis, Cassandra, RDS, S3, DynamoDB.
- **ML Libraries:** NumPy, Pandas, Matplotlib, Seaborn.
- **Testing Tools:** pytest, jest, unittest, pdb, cProfile.
- **Automation:** Selenium, Python.
- **AWS Services:** IAM, SSO, KMS, ECS, EKS, CDK, Lambda, SNS, SES, SQS, Glue, SWF, Cloud Formation, Quicksight,
- **Message Queues:** RabbitMQ, Kafka, gRPC.