

# Niyati Nilesh Trivedi

## Software Developer

Arizona, USA | 908-628-4654 | niyati.trivedi1202@gmail.com | GitHub

### SUMMARY

---

- Results-driven Software Developer with 4+ years of experience in full-stack development, specializing in Python and JavaScript frameworks, including Django and React, to create efficient and scalable applications.
- Demonstrated proficiency in designing and implementing RESTful APIs and integrating machine learning models, resulting in enhanced data retrieval efficiency and predictive analytics capabilities.
- Strong background in utilizing various frameworks, including Django and Flask, along with front-end technologies such as React, to deliver intuitive user experiences and improve engagement by up to 30%.
- Experienced in optimizing SQL queries and managing PostgreSQL databases, achieving significant reductions in data retrieval times and improving application performance by up to 40%.
- Skilled in implementing CI/CD pipelines and utilizing DevOps practices, leading to a 50% decrease in deployment times and ensuring high-quality software releases.
- Proficient in conducting unit and integration testing using tools like Pytest, resulting in a 99% defect-free release cycle and enhanced product reliability.
- Strong collaborator in Agile environments, contributing to effective project management and delivery timelines improvement by 15% through active participation in sprint ceremonies.
- Committed to continuous learning and professional development, with a focus on utilizing modern technologies and methodologies to drive innovation and efficiency in software development.

### SKILLS

---

<b>Programming Languages:</b>	Python 3.x, JavaScript, C/C++, C#, PL/SQL
<b>Frameworks:</b>	Django, Flask, Hadoop, Behave, Web2py, Pyramid, Spark Libraries Request, Beautiful Soup, httpLib2, Jinja 2, Pandas, NumPy, Matplotlib, Pickle, PySide, SciPy, PyTables,
<b>Web Technologies:</b>	XML, CSS3, HTML5, DHTML, jQuery, MVC, RESTful, AJAX, Bootstrap, React, Vue.js
<b>Cloud Technologies:</b>	Microsoft Azure, AWS Services, EC2, ELB, VPC, RDS, AMI, IAM, Cloud formation, S3, Cloud watch, Lambda, Docker
<b>Databases Management:</b>	SQL Server, MySQL, Teradata, Oracle, NoSQL
<b>Testing Tools:</b>	Pytest, Unit Test, ROBOT, Lettuce
<b>Operating System:</b>	Linux, Unix, Windows
<b>IDEs:</b>	Visual Studio, PyCharm, Eclipse, Atom, Sublime Text.
<b>Version Control/Tracking Tools:</b>	Git, GitHub, Bitbucket, Jira
<b>Methodologies:</b>	Agile, Scrum and Waterfall

### EXPERIENCE

---

#### Software Developer | Humana, AZ Sept 2023 – Present

- Developed a Python-based analytics application to analyze patient healthcare data, enabling over 1,000 healthcare providers to access insights and trends, which reduced report generation time by 30% through streamlined data processing.
- Designed and implemented RESTful APIs using Flask for a patient management system, facilitating seamless data integration with existing applications. This improvement led to a 25% increase in data retrieval efficiency, enhancing user experience.
- Utilized PostgreSQL databases for robust data storage and management, optimizing complex SQL queries to enhance data retrieval times by 40%. This optimization improved application performance significantly.
- Integrated machine learning models developed with Scikit-learn for predictive analytics in a chronic disease management project, achieving an 85% accuracy rate in predicting patient outcomes and enabling targeted interventions.
- Conducted unit and integration testing with Pytest for a suite of Python applications, ensuring high code quality and reliability. This rigorous testing resulted in a 20% reduction in post-deployment issues, improving user satisfaction.
- Optimized existing codebases for performance, refactoring critical algorithms to achieve a 50% reduction in processing time for data analysis tasks, which directly impacted the speed of patient data processing.
- Developed user authentication and authorization features using OAuth2 protocols for the patient management system, enhancing security and protecting sensitive user data across multiple applications.

- Participated in Agile ceremonies, including daily stand-ups, sprint planning, and retrospectives, which enhanced project management and improved delivery timelines by 15% through effective collaboration.

**Full Stack Python Developer | Deloitte, India**

**Jan 2019 – Jul 2022**

- Developed a scalable e-commerce platform using Python with Django for the back end and React for the front-end. This project enhanced user engagement by 30% by implementing an intuitive UI/UX design that streamlined the shopping experience.
- Implemented RESTful APIs for seamless data exchange between the front-end and back-end, which improved the overall system responsiveness by 25%, resulting in faster load times and enhanced user satisfaction.
- Optimized database queries within PostgreSQL by employing indexing and query restructuring techniques, leading to a 40% decrease in data retrieval times, which significantly improved application performance during peak usage.
- Integrated multiple payment gateways, including Stripe and PayPal, ensuring secure transaction processing. This integration led to a 20% increase in completed transactions, directly contributing to increased revenue.
- Conducted comprehensive unit and integration testing using Pytest and Selenium, achieving a 99% defect-free release cycle. This rigorous testing ensured high product reliability and reduced post-launch bugs significantly.
- Developed and maintained Continuous Integration/Continuous Deployment (CI/CD) pipelines with Jenkins, which streamlined the deployment process and reduced deployment time by 50%, enhancing overall team efficiency.
- Monitored application performance using New Relic, identifying key bottlenecks in real-time. Implemented optimizations that resulted in a 35% improvement in page load times, significantly enhancing user experience.
- Implemented user authentication and authorization protocols using OAuth2, ensuring compliance with industry security standards. This effort enhanced data protection and user trust, resulting in a 25% increase in new user registrations.
- Created detailed technical documentation and user manuals for the development process, which reduced onboarding time for new developers by 40% and facilitated smoother transitions during team changes.
- Engineered a real-time analytics dashboard utilizing Flask for the back end and JavaScript for dynamic front-end visualizations. This dashboard provided key performance metrics for client businesses, leading to a 15% improvement in decision-making speed due to instant data access.
- Utilized WebSocket technology for real-time data updates, which enabled the application to handle real-time analytics seamlessly. This implementation resulted in a 50% increase in user engagement, making the application more interactive.
- Developed data aggregation pipelines using Apache Kafka to process over 10,000 data points per second. This capability allowed clients to receive immediate insights, enhancing operational efficiency and responsiveness.
- Created interactive visualizations with D3.js and Chart.js, improving user comprehension of complex data trends by 45%. These visualizations enabled users to derive actionable insights quickly, facilitating better strategic decisions.
- Designed a microservices architecture to enhance application scalability, allowing the system to support a 60% increase in concurrent users without degradation in performance.
- Automated data reporting processes through Python scripts, significantly reducing manual reporting efforts by 70%. This automation allowed data analysts to focus on insights rather than data preparation, enhancing productivity.
- Participated in peer code reviews to maintain high coding standards, contributing to a 25% reduction in code-related issues in post-launch assessments. This process fostered a culture of quality and continuous learning within the team.

**EDUCATION**

<b>Master of Science in Computer Science</b> Pace University, New York, USA	<b>May 2024</b>
<b>Master of Technology in Electrical Engineering</b> Pandit Deendayal Petroleum University, Gujrat, India	<b>May 2019</b>
<b>Bachelor of Technology in Electrical Engineering</b> SAL Institute, Gujrat, India	<b>May 2017</b>