KETU PATEL

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EDUCATION

New York Institute of Technology   **Manhattan, New York**
Master of Science in Computer Science   **January 2021 - December 2022**

Gujarat Technological University (L.J Institute of Engineering and Technology)   **Gujarat, India**
Bachelor of Engineering in Information Technology   **June 2016 - August 2020**

WORK EXPERIENCE

Software Development Engineer at Conatix | Manhattan, New York   **June 2022 - September 2022**
- Implemented a JSON Schema using Typescript, resulting in a 70% reduction in developer's hours.
- Adapted the migration of the REST-based APIs to a cloud-based distributed system employing AWS EC2, AWS SQS and S3 Buckets, ensuring scalability and fault tolerance.
- Utilized Git and GitHub for version control, collaborating with the development team for smooth integration.
- Proficient in the end-to-end software development life cycle, encompassing requirement analysis, design, development, testing, deployment, and maintenance.
- Proficient in developing enterprise-level applications using J2EE technologies like Servlets, JSP, JMS, and JNDI.
- Proficient in practicing Test-Driven Development (TDD) methodology to enhance software quality and maintainability.

Full Stack Developer at DesireInfoWeb | Gujarat, India.   **July 2018 - December 2020**
- Developed robust software solutions using Java, ensuring scalability, data integrity, and cost optimization.
- Proficient in creating RESTful APIs and communication protocols for seamless interaction between microservices.
- Proficient in handling HTTP methods, status codes, request/response formats, and authentication mechanisms for secure API interactions.
- Skilled in working with various relational database management systems (RDBMS) such as MySQL, PostgreSQL, Oracle, or Microsoft SQL Server..
- Experienced in using Spring Boot's ORM (Object-Relational Mapping) support, such as Hibernate or JPA, for seamless database interaction.
- Skilled in using testing frameworks like JUnit and pytest to create automated tests that validate code functionality.
- Proficient in Agile Development methodologies such as Scrum, Kanban, or XP, emphasizing iterative development and rapid, customer-focused delivery.

Software Engineer at DesireInfoWeb | Gujarat, India.   **January 2018 - June 2018**
- Experienced in creating RESTful APIs and web services using Spring Boot's MVC architecture.
- Actively participated in cross-functional team meetings, providing insights to enhance project outcomes.
- Experienced in continuous integration and deployment (CI/CD) processes with Spring Boot applications using tools like Jenkins or Travis CI.
- Developed robust RESTful APIs using Java frameworks like Spring enabling seamless communication and integration with external systems.
- Experienced in writing and executing automated test scripts to validate functionality, performance, and security of applications.

TECHNICAL SKILLS

Languages:	Java, Python, JavaScript, TypeScript.
Web Programming:	HTML, CSS, Bootstrap, ReactJS, Angular, Node , JSON, JSP, jQuery.
Tools:	NetBeans, Eclipse, Microsoft Visual Studio, GitHub, Rhino, ANTLR, Docker.
Databases:	MySQL, MongoDB, Oracle.
Visualization:	Streamlit, NumPy, Matplotlib, Pandas.
Cloud Platforms:	Amazon Web Services (AWS).

PROJECTS

Pulse Oximeter Tracking Research Project | New York Institute of Technology
Developed an AWS-based pulse oximeter tracker for the College of Osteopathic Medicine at NYIT. Collaborated with medical students to create a solution for tracking user's pulse data, improving medical diagnoses and treatment plans while demonstrating Data visualization skills. Successfully deployed, the solution enabled real-time pulse data monitoring for multiple users, providing more comprehensive and accurate information for medical research advancements.

Online Course Portal
Developed a feature-rich online course portal using MongoDB, Node.js, and REST APIs. The portal provided a seamless learning experience for students to learn and ask questions about the courses. Designed with a focus on performance and reliability, the project showcased expertise in web development, database management, and API integration. This project provided me with valuable experience in building complex, user-centric systems and demonstrated my ability to leverage modern technologies to solve real-world problems.