

Komalben Kishorbhai Patel

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Summary

- Experienced in business requirement gathering, analysis, designing, coding, debugging, integration, testing, and supporting application maintenance to solve business needs.
- Worked on cutting-edge technologies and software development methodologies such as agile, waterfall and scrum.
- Developed leadership, strategic planning, project scheduling, task prioritization, and problem-solving skills while collaborating with 40+ team members.

Technical Skills

- **Programming Languages:** Java, Python, C, Shell scripting, SQL/PLSQL, Javascript, HTML, XML.
- **Frameworks:** Spring, Spring Boot, Django, JUnit
- **Database:** MySQL, PostgreSQL, Oracle 18c.
- **Application/Web Servers:** Tomcat and Apache Web Server, WildFly 16, JBoss EAP 7.
- **Tools:** Eclipse, Git - Bitbucket, Jira, Maven, Jenkins (CI/CD), Postman, Docker.
- **Operating Systems:** Windows, Linux.
- **Software Development Life Cycle (SDLC):** Agile, Scrum, Waterfall, Iterative.

Education

Master of Applied Computing

SEP 2022 – DEC 2023

University of Windsor, Ontario, Canada

GPA: 8.5/10

- Awarded “**Best Master of Applied Computing Project**” for “**Smart Garage System**”.

Work Experience

Software Developer

APR 2018 – JUL 2022

Bravura Solutions LLP (Haryana, India)

- Leveraged expertise as a subject matter expert to enrich wealth management and financial applications, meeting client requirements and business rules for Fidelity International, UK.
- Demonstrated proficiency in Java application development, including a strong track record of bug fixing and root cause analysis of over 150 defects. Conducted unit testing (TDD) using JUnit framework to ensure seamless integration with other modules using Jenkins.
- Applied creational design patterns (such as Builder, Façade, Factory, Singleton) to improved scalability and flexibility, leading to reduced development time and better user experience.
- Utilized SOAP and RESTful web services to facilitate efficient handling of XML and JSON-based responses in Service-Oriented Architecture (SOA), resulting in enhanced data exchange and communication across various modules.
- Implemented Apache ActiveMQ as a messaging module to enable real-time transaction event management, resulting in optimal processing of transaction events, leading to increased performance and reliability of the system.
- Integrated API functionalities to enhance communication and data exchange with external systems, ensuring seamless interoperability and extending the capabilities of wealth management applications.
- Implemented ReactJS to the front-end development process for building dynamic user interfaces, providing an interactive and responsive experience for end-users.

- Designed and implemented scalable solutions in collaboration with project managers and consultants which led to the successful implementation of 20+ technical documents to meet client requirements and contribute to team goals.

Software Engineer

MAY 2016 – MAR 2018

ISRO - Space Applications Centre (Gujarat, India)

- Initiated Java application development to efficiently extract HDF files and convert them into various file formats, improving data accessibility and usability.
- Executed MySQL and PostgreSQL queries to manipulate satellite data, enabling its utilization in weather forecasting applications and enhancing data analysis capabilities.
- Created shell scripts to automate the monitoring and triggering of Python scripts for efficient data extraction and storage in a PostgreSQL database to reduce manual efforts and improved data processing.
- Used D3.JS, ReactJS, Open Layers3, and Angular for satellite data visualization to provide interactive user-experience.
- Coordinated with peers for unit testing and code review to enhance the quality of code and find bugs in code. Participated in functional, regression and user acceptance testing for product quality assurance.

Academic Projects**Smart Garage System**

University of Windsor

SEP 2022 – DEC 2022

- Led a team of 8 people in Advanced Software Engineering course for IoT-based Simulation Project.
- Formulated project methodology for on-time completion of project within a short 2-month deadline.
- Contributed to requirement analysis, technical design and documentation, task allocation, stakeholder communication, pipeline design for testing and decision-making.
- Utilized various technologies such as IoT, Flutter, Unity, Azure, JIRA, Jenkins, and Git.

Web Search Engine

University of Windsor

SEP 2022 – DEC 2022

- Developed a web crawler with effective use of Java and advanced algorithms, enabling swift indexing of web pages for the search engine, ensuring up-to-date search results.
- Integrated Java-based auto-correct, auto-complete, and website ranking algorithms, enhancing the search engine with query suggestions, streamlined search terms, and relevant result ranking.

Wheat Disease Detection

University of Windsor

JAN 2023 – APR 2023

- Developed an artificial intelligence (AI)-based model using Convolutional Neural Networks (CNN) for real-time detection of diseases in wheat crops using Python libraries.
- Formulated a new dataset by merging different datasets with additional data from various sources to enhance the performance of the CNN model.

Reddit Sentiment Analysis

University of Windsor

MAY 2023 – AUG 2023

- Employed Python, NLTK, and TextBlob for Reddit sentiment analysis, seamlessly integrating results into a dynamic Django web interface with JavaScript for real-time data visualization.
- Containerized the project with Docker for portability and scalability, while optimizing performance through Redis for efficient caching and backend data storage in real-time sentiment analysis.

Achievements

- Awarded three times “**Best Employee Bravo Award**”.
- Recognized as "Domain Expert" for UK HMRC pension product SIPP.