SRI SIDDHARDHA KURRA SOFTWARE ENGINEER

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# SUMMARY

* Innovative Software Development Engineer with over **3+** years of experience in designing, developing, and deploying high- performance applications in the finance and entertainment sectors.
* Proficient in using Java, Python, and SQL, along with frameworks such as Spring Boot, Django, and Angular to create scalable and secure solutions.
* Skilled in implementing RESTful APIs, managing databases with MySQL and Oracle, and utilizing cloud services like AWS and Azure.
* Adept at containerization with Docker, real-time data processing with Apache Kafka, and following Agile methodologies to deliver robust software solutions.
* Experienced in collaborating with cross-functional teams to enhance user engagement and optimize system performance.
* Strong background in developing user-friendly interfaces and ensuring efficient data management through advanced programming techniques.
* Demonstrated ability to drive projects from conception to deployment, ensuring high quality and adherence to industry standards.

# PROFESSIONAL EXPERIENCE

**BCBS, NJ**

**Software Engineer Jun 2023 – Current**

* Leveraged Python and Django to develop robust data pipelines for processing and analyzing large healthcare datasets, ensuring data integrity and compliance.
* Optimized database performance using SQL and Oracle for efficient storage and retrieval of patient records, medical images, and clinical data.
* Implemented data streaming solutions using Apache Kafka to handle real-time patient data, enabling timely decision-making and alerts.
* Designed and integrated XML-based data exchange formats to facilitate seamless data sharing between healthcare systems and applications.
* Utilized Docker for containerization to streamline the deployment and management of healthcare applications, ensuring consistency and scalability across different environments.
* Built dynamic and user-friendly healthcare applications using Angular, incorporating AJAX for real-time data updates to enhance the user experience.
* Deployed and managed scalable healthcare applications on Azure cloud platform, leveraging cloud-based services for improved performance and reliability.

**KPMG, India**

**Software Engineer Jan 2020 - Aug 2021**

* Developed robust applications using Java and Spring Boot, implementing secure and scalable solutions for transaction processing and data management systems in the finance sector.
* Utilized React.js and Bootstrap to create responsive front-end interfaces, enhancing user experience and facilitating intuitive data visualization and reporting for financial applications.
* Implemented Spring JPA for efficient data access and management, ensuring seamless integration with MySQL databases for storing and retrieving transactional data securely and efficiently.
* Designed and developed Restful APIs, enabling seamless integration with external systems and facilitating data exchange via JSON payloads, ensuring interoperability and data integrity.
* Utilized Redux for state management in React applications, ensuring consistent and responsive user interfaces for data analysis and reporting tools.
* Implemented unit tests with JUnit and automated builds and deployments using Jenkins, ensuring the reliability and continuous integration of software applications throughout the development lifecycle.
* Collaborated within the SDLC framework, utilizing Agile methodologies to deliver high-quality software solutions, ensuring adherence to project timelines and client requirements.
* Deployed and maintained software applications, ensuring scalability and reliability while adhering to industry standards and regulatory requirements in the finance sector.

**Trigent Software, India**

**Software Engineer Intern Jul 2019 – Dec 2019**

* Developed and maintained Java-based applications, utilizing efficient coding practices and object-oriented programming principles to ensure optimal performance and reliability.
* Designed and implemented RESTful APIs to facilitate seamless communication between front-end and back-end systems, ensuring data integrity and security.
* Utilized React.js to create dynamic and responsive user interfaces, integrating with Java back-end services to deliver a cohesive and user-friendly application experience.
* Managed and optimized database operations using SQL and Oracle, implementing complex queries and maintaining data integrity to support application functionality.
* Collaborated with cross-functional teams using Git and VS Code for version control and code management, ensuring smooth development workflows and efficient project delivery.

# EDUCATION

**New Jersey Institute of Technology Newark, NJ**

**Masters in Computer Science Sep 2021 – May 2023**

**Acharya Nagarjuna University Guntur, India**

**Bachelor of Technology in Computer Science Aug 2017 – May 2021**

# TECHNICAL SKILLS

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| --- | --- |
| **Programming Languages:** | Java, Python, SQL, GoLang |
| **Libraries:** | NumPy, Pandas, Matplotlib, Scipy |
| **Frameworks:** | Spring Boot, Node.js, Angular, React.js, Django, Flask, Hibernate, Express.js, Spring Beans, Spring Security, Spring JPA |
| **Web Technologies:** | HTML, CSS, JavaScript, JQuery, XML, AJAX, JSON, Bootstrap, Restful API, Redux, TypeScript |
| **Cloud Technologies:** | AWS, MS Azure |
| **Database:** | MySQL, MongoDB, Oracle |
| **Version Tools:** | Git, Docker, Kubernetes, JUnit, Mockito |
| **Other Skills:** | Jira, GitHub, Jenkins, Maven, Apache Kafka |
| **Methodologies:** | Agile, Waterfall, SDLC |
| **IDEs:** | NetBeans, IntelliJ IDEA, Eclipse, VS code. |
| **Operating Systems:** | Windows, Linux |

**PROJECTS**

**Online Quiz System | Spring Boot, React, MongoDB Atlas, JWT, Material-UI**

* Architected a full-stack quiz platform enabling user-driven quiz creation and participation, with secure JWT authentication and role-based access control.
* Implemented efficient MongoDB document relationships and indexing, achieving sub-100ms quiz retrieval times.
* Engineered a responsive React frontend with Material-UI, featuring real-time score calculation and progress tracking.
* Designed RESTful APIs with Spring Boot, incorporating comprehensive error handling and input validation for robust user experience.

**Quotivation Station | React, JavaScript, Express, MongoDB Atlas, Node.js, Docker**

* Crafted a user-friendly web app with 1000+ users, lauded for innovative image generation and quote sharing features. Explore at [www.siddhardhakurra.com.](http://www.siddhardhakurra.com/)
* Containerized with Docker Compose for scalable architecture, leading to 15% improved operational efficiency.
* Implemented a compound index on user IDs and timestamps, coupled with and LRU caching, resulting in a 25% reduction in user feed retrieval latency and an overall system responsiveness improvement.

**TimeVault App | Django, Python3, web3, Truffle, Ethereum Blockchain, SQLite3**

* Engineered a blockchain-based time capsule app with Truffle smart contracts on Ethereum, ensuring tamper-proof security and integrity.
* Developed an intuitive UI with Django and Bootstrap, boosting user engagement by 25%.

**Inventory System | Java, J2EE, JPA, JAX-RS, CDI, JSP, JMS, WebSockets, Threads**

* Introduced lazy loading for non-essential modules, cutting initial load times by 30% without sacrificing core functionality.
* Implemented Trie-based indexing for product search, boosting retrieval speed by 25% in the Inventory Management System.
* Pioneered real-time chat via WebSockets, cutting inventory issue resolution times by 15%.
* Slashed inventory update duration by 40% through thread pooling, ensuring efficient parallel processing.