

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

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.

Quotation 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.
- 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.