YASODA KRISHNA REDDY ANNAPUREDDY

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SUMMARY

Dynamic Software Engineer with 3+ years of experience specializing in Java/J2EE, cloud computing (AWS, Azure), and DevOps. Proven expertise in developing scalable web applications, RESTful APIs, and microservices, alongside strong competencies in data architecture and Agile methodologies. Passionate about leveraging advanced technologies to drive efficiency and innovation, with a continuous focus on learning and applying cutting-edge solutions to solve complex challenges.

TECHNICAL SKILLS

Programming Languages: Java, Python, C
Operating Systems: Unix, Linux, Windows, Mac OS
Methodologies: Agile, Waterfall, Test Driven Development (TDD), Scrum, Pair Programming, SDLC
Web Technologies: JavaScript, JSP, Servlets, HTML5, CSS3, XML, JSON, AJAX, jQuery
Java/J2EE Technologies: JDBC, EJB, Web Services (RESTful, SOAP), Hibernate, Structs, Spring, JPA, JMS, RMI
Frameworks and API's: Spring, Spring Boot, Spring IOC, Spring Security, Spring MVC, Spring Cloud, Spring AOP, Spring ORM, Apache Kafka, Junit, Mockito
Databases: MySQL, Oracle, SQL/PLSQL, PostgreSQL, DB2, MongoDB, DynomoDB
Tools and Cloud platforms: Postman, CI/CD Jenkins, JIRA, Git, SVN, Docker, Kubernetes, Terraform, AWS, OpenShift
IDE & Build Tools: IntelliJ, STS, Eclipse, Visual Studio, Maven
Proficient Topics: Data Structures & Algorithms, Object-oriented programming, Linux Programming

EDUCATION

Master of Science, Computer Science   **December '23**
Illinois State University | Normal | Illinois | United States   **GPA: 4.0 / 4.0**
Bachelor of Technology, Computer Science, Specialized in Big Data   **April '21**
KL University | Vijayawada | Andhra Pradesh | India   **CGPA: 9.2 / 10**

PROFESSIONAL EXPERIENCE

Full Stack Developer, IQIT Solutions, Sugarland, TX - United States   **Jan '24 – Present**

- Collaborated with the Web and Interactive Communications team to design, develop, and maintain robust, secure, scalable **Spring Boot** web applications.
- Worked with a team to build user-friendly interfaces using **HTML, CSS, AJAX, jQuery, JavaScript, TypeScript** and **Angular**.
- Architected **RESTful** web services and **Microservices** using **Spring Boot**.
- Configured and integrated **Spring Security** with **JWT, OAuth 2.0** authentication and authorization for securing API Endpoints.
- Worked with **SQL** and **NoSQL** databases and leveraging **Hibernate** for data persistence with advanced features, including lazy loading, caching, and batch processing, to optimize performance and efficiency.
- Conducted unit testing using **JUnit**, **Mockito**, and other testing frameworks to ensure the quality of the code.
- Designed and executed end-to-end data integration solutions utilizing **Apache Camel** and created custom APIs for monitoring and managing deployed **Docker** containers.
- Deployed and managed applications on cloud platform, primarily **AWS**, leveraging services like **EC2, S3, RDS**, and **Lambda**.
- Implemented monitoring and logging solutions, such as **AWS CloudWatch** and **ELK** stack (**Elasticsearch, Logstash, Kibana**), to track application performance and troubleshoot issues.
- Facilitated **Jenkins**-**Git** integration for enhanced version control and **JFrog** as an artifact registry in the **CI/CD** pipeline.
- Actively participated in daily stand-up meetings and **agile** development processes, contributing to the continuous improvement of team productivity and efficiency.

Teaching Assistant, Illinois State University, Normal - United States   **Aug '22 – Dec '23**

- Facilitated bi-weekly tutorial sessions for over 100 students, significantly enhancing their mastery of core programming concepts and problem-solving strategies in Java. This led to a remarkable 15% increase in average assignment scores.
- Initiated interactive lab exercises that stimulated practical application of programming principles, boosting student participation by 20%.
- Spearheaded the adoption of a standardized grading rubric for assignments and projects, ensuring fair and consistent evaluation. This revamped process reduced grading disputes by 25%.
- Conducted weekly office hours and individual tutoring sessions, addressing student queries on programming challenges. This contributed to a significant 10% reduction in the drop-out rate.

NCR Corporation , Hyderabad - India   **Feb '21 – Aug '22**

- Orchestrated the cloud migration of the POS and Fuel system to a microservices-based architecture on AWS, employing Docker for containerized environments. This approach unified major components into a scalable infrastructure, standardizing operational workflows across retail locations.
- Developed Java and Spring Boot applications for the POS and Fuel systems, incorporating RESTful APIs and promo code development to automate manual tasks and enhance transaction processing speed.
- Leveraged Agile methodologies for rapid iteration and deployment, focusing on system performance, API latency improvements, and comprehensive Unit Testing to ensure code reliability and system integrity.
- Engineered and deployed robust security measures tailored to the POS and Fuel systems, achieving PCI DSS compliance. Utilized Docker to maintain secure and consistent environments across all platforms.
- Employed diagnostic techniques to troubleshoot and reduce system issues, including debugging and engineering updates that automated recurring support tasks, improving resolution times.
- Advocated for the adoption of new technologies and Agile practices, leading initiatives like a mentorship program and targeted training to upskill junior engineers and enhance team productivity.
- Refined POS and Fuel system processes for optimal cloud utilization, employing Load Balancers to distribute traffic efficiently and ensure system availability, thus enhancing the customer transaction experience.
- Discovered new technologies and integrated them into the team's workflow, devising a mentorship program that increased team productivity by 20% and segmented training that upskilled 10+ junior engineers.
- Visualized and restructured the POS and Fuel system processes to leverage cloud benefits, calculating a 30% reduction in operational costs and revolutionizing the customer transaction experience for 500,000+ transactions monthly.

ACADEMIC PROJECTS

ISU CODE (Illinois State University CODE)   **Spring '23**

- Forged an online learning portal for students and faculty using the Angular and Spring framework.
- Improved the performance of the application by optimizing the code and database queries, reducing the load time by 25%.
- Built a scalable and high-performance platform, capable of handling millions of users, with a focus on security, reliability, and scalability.

Temporary Housing Assistance   **Fall '22**

- Developed a microservices-structured web platform to streamline the search for temporary housing, facilitating daily property searches and boosting user satisfaction.
- Implemented Spring Security for robust user authentication and data protection, securing thousands of transactions and owner listings management.
- Enhanced maintenance and scalability by 30% through industry-standard Design Patterns and Clean Code principles, utilizing MVC architecture for efficient organization.
- Achieved 97% unit test coverage, reducing post-deployment bugs by 40% and ensuring application reliability.
- Added admin features for spam detection and notifications, maintaining a high-quality platform for users and property owners.
- Transitioned from a relational to a NoSQL database for better scalability, using JAVA, Spring Boot, JSTL, and Angular in the development stack.

Image Enhancement by Histogram Equalization   **Spring '20**

- Applied Histogram Equalization techniques across multiple color spaces (RGB, HSV, YIQ) to enhance the quality of color images, demonstrating versatility in image processing approaches.
- Conducted Histogram Specification on 50+ grayscale and color images using MATLAB, resulting in a 40% increase in image clarity, 35% boost in contrast, and 25% enhancement in overall visual quality.
- Successfully enhanced High Dynamic Range (HDR) images, resulting in a 50% improvement in image clarity and detail visibility through specialized image processing techniques.
- Gained extensive hands-on experience in Python programming and image processing, utilizing Google Colabs for the efficient development and testing of algorithms on over 200+ image samples.

CERTIFICATIONS

- **AWS Solution Architect Associate**   **Mar '23**
- **Service Now System Administrator**   **Aug '20**
- **Automation Anywhere Certified Advanced RPA Professional**   **Dec '20**
- **Certified Associate Programmer: Programming Essentials in C++** by **Cisco**   **Jun '20**