




VENKATA KRISHNA SINGAMSETTI

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 <https://venkatakrishna4.github.io/portfolio/>

Career summary

Over the past 3 years as a Java Developer, I've been on a dynamic journey of resolving numerous bugs, implementing and delivering innovative features, and enhancing the security of projects. My focus on optimizing code, meticulous documentation, and mentoring fellow developers has not only fortified my skills but has also contributed to the overall success of the teams I've been a part of. Ready for new challenges and eager to continue making a positive impact in the world of Java development.

Experience

Kloudspot

Apr 2022– Present

Senior Software Engineer

Bangalore

- Design strong and flexible solutions using Spring Boot, making sure to add Spring Security for better security in the application.
- Take charge of the entire development process, from the initial idea to the final product, making sure we stick to the schedule and meet all our goals along the way.
- Implement and enhance security measures using Spring Security, actively participating in vulnerability assessments and ensuring compliance with industry standards.
- Regularly check the security of the system, find possible problems, and take steps beforehand to make the application stronger against security risks.
- Integrated JUnit framework and Mockito into the project and created test cases.
- Leverage Elasticsearch for efficient data indexing, searching, and retrieval, contributing to the overall performance of the system.
- Lead and guide a team of developers, making sure they follow the best practices and rules for writing code.
- Review the code, help junior developers learn, and create a teamwork-focused and creative development space.
- Work together with teams from different departments to find and fix tricky technical problems, using careful thinking and problem-solving skills.
- Create comprehensive technical documentation, including design specifications, code documentation, and deployment procedures, ensuring clarity and maintainability.

Tata Consultancy Services

Jan 2021– Apr 2022

Assistant System Engineer

Hyderabad

- Take an active role in finding and fixing problems in the Java code, working closely with experienced developers to solve issues quickly.
- Carefully investigate the main cause of bugs to understand where they come from. Then, come up with effective solutions to fix them, making the code better overall.
- Engage in the testing phase of software development, executing test cases to ensure the functionality, performance, and security of Java applications.
- Utilize debugging tools and logging mechanisms to trace and diagnose issues within the Java applications, enhancing the efficiency of the debugging process.
- Maintain detailed records of identified bugs, including steps to reproduce, expected behavior, and resolution strategies, ensuring a comprehensive bug database.
- Document fixes and updates made to the codebase, providing clarity for future development and aiding in knowledge transfer within the team.

Internships

Spyry Technologies

Nov 2018– Dec 2018

Cyber Security - Trainee

Bangalore

- Conducted open port scanning using Angry IP Scanner to identify potential vulnerabilities in the web application's network.
- Employed Maltego to create detailed network maps, facilitating a clear understanding of network connectivity and aiding in identifying potential attack paths.

- Leveraged Whois to uncover valuable information about the targeted websites, including the technologies they were using. This insight was instrumental in understanding potential vulnerabilities.
- Utilized Burp Suite for a multifaceted approach, including cookie stealing and session maintenance. This comprehensive toolset allowed for the identification of security loopholes and potential areas of exploitation.
- Conducted directory traversal to uncover any publicly unavailable information, ensuring a thorough examination of the web application's file structure for hidden vulnerabilities.
- Applied Tracert to trace the IP addresses involved in the network, providing critical information for understanding the infrastructure and potential points of entry.
- Maintained meticulous documentation throughout the process, detailing the methodologies employed, tools used, and the outcomes of each assessment. This documentation serves as a valuable resource for future reference and knowledge sharing. [Link to the document](#)

Notable Github Projects

AutoMessaging | Automatic Message Delivery System

- Auto Messaging is developed using the Spring Boot framework, providing a robust and scalable foundation for seamless application development.
- Implements Spring Security for secure and reliable user login and signup functionalities, ensuring data confidentiality and user authentication.
- Leverages scheduling mechanisms to automate the process of sending messages at predefined intervals, enhancing efficiency and timely communication.
- Utilizes a REST API architecture, enabling seamless communication between the user interface and the server. Data exchange occurs in JSON format, ensuring a standardized and lightweight communication protocol.
- Implements robust exception handling mechanisms to gracefully manage errors, ensuring the application's resilience and a smooth user experience.
- Incorporates Jasypt for secure password encoding and decoding, enhancing the overall security of user credentials within the system.
- Currently supports automated messages for WhatsApp, with future plans to expand functionality to include SMS, email, and other communication channels for enhanced versatility.

Education

Kallam Harinadhareddy Institute of Technology

July 2016 – Dec 2020

Bachelor of Technology, Computer Science and Engineering - 7.95 CGPA

Jawahar Navodaya Vidyalaya, Maddirala

Mar 2015 – Apr 2016

AISSCE, M.Bi.P.C - 80.60

Jawahar Navodaya Vidyalaya, Maddirala

Mar 2013 – Apr 2014

AISSE, 9.0

Achievements

- Secured 2nd position in coding competition conducted at RVRJC.
- Secured 1st position in a power point presentation on VAPT.
- Secured 2nd position at regional level Shuttle Badminton.