ARAVIND VALLAMKONDA

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EDUCATION

Master of Science, Computer Science   Jan 2023 – Dec 2024
   George Mason University, Fairfax, VA, USA   **GPA: 3.89 / 4.0**
Bachelor of Technology, Computer Science   Aug 2016 – Jul 2020
   Amrita Vishwa VidyaPeetham, Bengaluru, India   **GPA: 3.36 / 4.0**

SKILLS

Languages   : Java, C, Python, HTML, CSS, Javascript, SQL, PostgreSQL
Tools & Services   : AWS, Kubernetes, Docker, Jenkins, Oracle SQL Developer, Eclipse, Postman, Kafka, Redis, Git, Salesforce, Maven
Other   : JUnit, Bash, Unix, Linux, JIRA, CentOs

RELEVANT EXPERIENCE

Associate Application Development   Nov 2020 – Dec 2022
National Payments Corporation of India, Hyderabad, TS, India
• Implemented **Open Source Technologies** such as **Apache Kafka, Redis, and Postgres**, to overcome architectural challenges, resulting in a **150% increase in NETC system efficiency**.
• Transitioned NETC system from **batch processing to real-time** transaction settlement, improving the speed and reliability of operations.
• Involved in developing **REST API endpoints in Java** and writing **SQL** queries for Postgres databases.
• Developed and delivered comprehensive transaction reports to client banks, aiding in **improved decision-making** and **operational performance**.
• Provided expert support to multiple banks using the NETC product, resolving issues and contributing to a **35% rise in customer satisfaction and a 20% boost in operational efficiency**.
• Identified and resolved critical system bugs, **reducing downtime by 60%** and improving overall system stability.
• Improved the performance of backend systems by optimizing database queries and **reducing response times by 50%**.
• Mentored and coached 2 junior developers on best practices, code review, and technical design.

Programmer Analyst Trainee   Feb 2020 – Jun 2020
Cognizant Technology Solutions, Bangalore, KA, India
• Acquired proficiency in Salesforce and leveraged this knowledge to independently create an employee onboarding website, showcasing both a proactive learning mindset and practical application of new technologies.
• Enhanced Data Structures, Algorithms, and Advanced Java skills by 90% through focused training. Throughout the training program, actively engaged in multiple assessments, consistently achieving an average score of 95.

PROJECTS

National Electronic Toll Collection (NETC) AND NETC Backoffice (NPCI Project)
• National Electronic Toll Collection (NETC) application is developed to meet the electronic tolling requirements of the Indian market. It offers an interoperable nationwide toll payment solution, popularly known as FASTAG.
• Backoffice, an integral settlement system for NETC, facilitating seamless financial settlements between banks and RBI(Reserve Bank Of India). This platform also served as a central hub for dispute resolution and settlement files.
• Leveraged technologies such as **SpringBoot, Apache Kafka, Postgres, Redis, REST Api, Git, JIRA**

E-Commerce Website hosted in AWS
• Developed a Spring Boot and RESTful web service-based application for E-Commerce Website using Amazon RDS/MySQL, containerized with Docker, and deployed on Kubernetes.
• Implemented a CI/CD pipeline using Jenkins and GitHub for automated builds and deployments, hosted on a public domain purchased from GoDaddy; conducted thorough testing with Postman to ensure functionality and scalability.
• Leveraged technologies such as **SpringBoot, REST Api, Git, Docker, Kubernetes, Jenkins, Amazon RDS/MySQL, Postman**

Automated Code Review Extension for Visual Studio
• Built a Visual Studio extension to automate the code review, which will save 50% of time consumed in manual code review.
• Developed a Quickfix functionality that efficiently resolves errors identified during code reviews.
• Leveraged technologies such as **Java, Typescript**