Sai Vennela Garikapati

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EDUCATION

Master of Science, Computer Engineering GPA: 3.75/4.0   Dec 2023

San José State University, San Jose, California

Bachelor of Technology, Information Technology GPA: 8.9/10.0   May 2018

VR Siddhartha Engineering College, Andhra Pradesh, India

TECHNICAL SKILLS

Programming Languages: Java, Python (Pandas, NumPy), C.

Web Technologies: HTML, CSS, JavaScript, React JS.

Framework: Spring MVC, Spring Batch, Spring Boot, Express.

Application/Tools: IntelliJ, Eclipse, PyCharm, OpenShift, Git.

Query Language: PL/SQL. **Databases:** MySQL, MongoDB.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services – Systems Engineer   Jun 2018 - Jun 2021

Proximus:

- Analyzed the legacy system and developed an efficient application for order processing, using the Spring Batch framework, which reduced the processing time by 50%.
- Developed and invoked REST and SOAP services to interact with other applications. These services pass the order information and generate invoices, based on the internet and call usage of customers.
- Improved the retrieval time of orders, by designing a web application using the Spring Boot framework, for the support team.
- Detected issues in the existing system by developing a tool for inspecting data quality using the Spring MVC framework.
- Interacted and worked closely with architects and gained knowledge in the Telecom domain by participating in requirement meetings.

PG&E:

- Evaluated the need for a resource tracking dashboard and initiated an idea for developing an application that helps management track employees' leaves and future assignments.
- Actively involved in the design and development of the dashboard, which helped in optimizing the efficiency and planning of the team by more than 15%.

PROJECTS

Travel Sphere: Jun 2023–Sep 2023

- Implemented a hotel booking application using MERN stack that allows users to search for hotels, view details and photos, and make bookings.
- Developed booking and payment modules and implemented responsive design, and accessibility features.
- Designed and developed the backend RESTful APIs for hotel search, booking, review, user authentication, and authorization. Integrated third-party services such as Stripe API for payment processing.

Happi-Bus management system: May 2023

- Developed a user-friendly mobile application using Spring boot and react-native that allows users to search for buses, view details, and make bookings.
- Designed a facial verification system to ensure the authenticity and security of passengers.

Customer Personality Analysis: Jan 2022–May 2022

- Grouped the customers based on their spending and income using preprocessing techniques. Identified important features which have an impact on the purchase of products.
- Applied K-Means clustering algorithm for grouping customers based on their income and expenditure. Additionally, implemented the Q-Means algorithm to cluster the data using "QcWare" CPU and GPU simulators.

ACHIEVEMENTS

- Awarded a Special Initiative award by TCS for showing commitment and delivering a new tool for the Billing Team.
- Received Best Team award for developing an application that increased the processing speed of customer orders.

RESEARCH PUBLICATIONS

- Presented a paper "Performance Analysis of Cryptographic Algorithms for Cloud Security" in ICICCT (2018), published in IEEE.