DARSHAN B SHETTY

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PROFESSIONAL SUMMARY

Dedicated professional with a robust foundation in the design and implementation of Autopsy OF RGD and jig for cross connection in assembly lines, utilizing Python and Java programming. Backed by a rewarding internship at GE Healthcare, I showcase proven expertise in harnessing technology to tackle intricate challenges and spearheading innovative solutions. My hands-on experience in the healthcare technology domain at GE underscores a demonstrated ability to contribute effectively within dynamic teams. Eager to apply acquired skills and expertise to make meaningful contributions to cutting-edge projects and drive advancements in the field. Furthermore, I led the development of a secure European-market eCommerce system, utilizing Spring Boot and microservices. In this role, I successfully implemented technology solutions, contributing to the overall success of the project.

SKILLS AND ACCOMPLISHMENTS

- **Programming Languages**: Python | Java| c++
- Object-Oriented Programming (OOP)
- **Web Development**: HTML | CSS | JavaScript | React.
- **Other Tools:** Spring boot. | API Testing with Postman | Microservices
- **Other Skills:** Adaptability| Eagerness to Learn| Time Management |Attention to Detail | Critical Thinking| Positive Attitude | Flexibility.

- Participated and qualified for quarterfinals in Indian Innovation challenge Design contest 2018 and 2019conducted by TEXAS INSTRUMENTS and received a grant of USD 200 from Texas and DST. Projects:
  - An EMG Signal based power drive and its biomedical applications.
  - Smart watch with fingertip touch-based automation.
  - IoT enabled smart labs.
- Won the IoT challenge organized by IIT Bombay
- Received the prestigious "Best Intern Award" in recognition of outstanding contributions and dedication during the internship at GE Healthcare.

WORK EXPERIENCE

JAVA DEVELOPER INTERN | Hulk Hire, Hyderabad **(07/2023) – (11/2023)**

PROJECT | eCommerce & Payment System

The overarching goal of this project is to meticulously craft a resilient and secure online transaction platform through the adept utilization of Spring Boot, tailored to deliver an unparalleled and smooth shopping experience. Encompassing the entirety of the eCommerce lifecycle, the project seamlessly guides users from the initial phase of product browsing, through the intricacies of payment processing, culminating in the seamless execution of order fulfilment processes.

RESPONSIBILITY

- Utilized Spring Boot for developing a modular and efficient payment processing system.
- Created a robust validation framework to ensure data integrity and prevent errors.
- Adopted a microservices architecture for scalability, fault isolation, and easy maintenance.
- Implemented comprehensive error handling mechanisms to provide informative error messages.
- Ensured the security of transactions by implementing HMAC & RSA encryption.
- Integrated with communication channels like email or SMS for timely notifications.
- Database Utilization - Redis, Mongo, ActiveMQ in AWS:

INTERN | GE Healthcare, Bangalore (07/2019) – (08/2020)

PROJECT 1 | Digitized Autopsy for RGD:

Led the digitization initiative for autopsy procedures tailored for Research and Development (RGD). implemented advanced medical imaging technologies to enhance accuracy and documentation in post-. mortem examinations. This digitized approach facilitates more detailed analysis and supports cutting-edge research initiatives.

PROJECT 2 | Jig Development for Cross-Connection Detection in Assembly Line:

Engineered and implemented a precision jig system to streamline assembly line processes. Designed specifically for detecting cross-connections, this innovative jig ensures the integrity of the assembly by identifying and preventing potential issues. The implementation has significantly improved efficiency and quality control within the assembly line, contributing to a more robust and error-free production process.

PROJECTS

- **Medical Electronics**: EMG Signal-based power drive and its biomedical applications.
  Designed and developed analogy circuits to extract EMG signals from the human body and integrate them with the signal broadcasting system.
- **Mechatronics**: Smartwatch with fingertip touch-based automation.
  Implemented a circuit to recognize the finger gesture and coded MSP430 (Embedded C) to recognize the gesture so that predetermined actions could be performed.
- **Internet OF Things (IOT):** The Smart Home Energy Monitoring System using Java.
  The Smart Home Energy Monitoring System uses IoT devices, sensors, and software to gather real-time energy data in residential settings. It aims to optimize energy consumption and provide insights for better energy management**.**
- **Industrial Engineering:** Project Intern in GE healthcare
  I contributed to the development and implementation of the IGBT cable connection jig, digitized autopsy and CoC processes,

EDUCATION

BTech in Electronics and Communication
CMR University, Bangalore

CERTIFICATION

Python Foundation Course by SimpliLearn.
Java Foundation Course by KG Coding
Web Development Foundation Course By KG Coding.

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