Yash **Moar**

SOFTWARE ENGINEER

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Education

Vellore Institute of Technology, Vellore   *Tamil Nadu, India*
B.TECH. IN ELECTRONICS AND COMMUNICATION ENGINEERING (BIOMEDICAL) • CGPA: 7.7   *May 2022*

MP & EV English Medium High School, Visakhapatnam   *Andhra Pradesh, India*
INTERMEDIATE EDUCATION (CBSE) • PERCENTAGE: 81.2%   *May 2017*

Skills

Programming	Python, JavaScript, JAVA, C, C++, PHP, MySQL, LaTeX, MATLAB
DevOps	AWS, Docker, Kubernetes, Jenkins, AWS
Front-end	REST, Redux, React, HTML5, CSS3, NextJS, Jest, React Testing Library
Core Competencies	Microservices, Computer Architecture, Git, Data Structures & Algorithms
Development Boards	Raspberry Pi, Arduino, NodeMCU

Work Experience

HSBC Technology India Pvt. Ltd.   *Pune, India*
SOFTWARE ENGINEER   *Aug. 2022 - Present*

- Developed and optimized online applications for HSBC banking staff and customers, focused on automating home loan document generation across multiple regions.
- Designed and implemented regionalized, reusable components using ReactJS and NodeJS, reducing cyclomatic and cognitive complexity and improving the code maintainability for HSBC's global mortgage processing systems.
- Increased code coverage by 20% while resolving 900+ Sonar and Checkmarx vulnerabilities, reducing code duplicity by 35% and ensuring zero critical or major issues in production.
- Developed a custom web component library that provided pre-built components with accessibility features.
- Supported production teams in deployments, assisted testing teams in issue resolution and ensured timely delivery.
- Mentored new team members and revised their training curriculum, resulting in a 50% reduction in training timelines and faster induction into mainstream business activities.

VIT LEO NGO   *Vellore, India*
MEMBER OF THE BOARD   *2018 - 2021*

- Organized community health outreach programs and educational initiatives through school-based instruction.
- collaborated with school administrators and NGO representatives to ensure seamless event execution.

Projects

Web-Based Medical Portal for Remote Patient Monitoring
INDEPENDENT DEVELOPER   *Jan. 2022 - Feb. 2022*

- Built a web-based medical portal supporting real-time monitoring of 5+ vitals, secure patient-doctor communication, and remote patient management using IoT integration.
- **Tools Used:** React.js, Node.js, MongoDB, Express.js, Socket.IO, Chart.js.

Diabetic Retinopathy Detection from Fundus Images Using MATLAB
PROJECT LEAD   *Dec. 2021 - May. 2022*

- Lead engineer on agent-less backtracking system that can discover client device's fingerprint(including public and private IP) independently of the Proxy, VPN and NAT.
- **Tools Used:** MATLAB, U-Net architecture, EfficientNet, Support Vector Machine, Convolutional Neural Networks (CNN).

IoT-Based Person Locator
INDEPENDENT DEVELOPER   *Dec. 2020 - May. 2021*

- Designed an intelligent IoT-based real-time person tracking system leveraging predictive analytics and DBSCAN to enhance accuracy and reliability in noisy GPS data.
- **Tools Used:** XAMPP Servers, Python, GPS Module, GSM Module, Arduino Uno, Airbyte, IoT Middleware.

Certifications & Awards

2024	**PAT on the Back Award**,	at HSBC for exceptional performance and achievements
2023	**Pioneer of the quarter Award**,	at HSBC for codebase optimization and vulnerability remediation
2020	**Algorithmic Toolbox**,	UC San Diego | Coursera
2020	**Java Programming**,	Duke University | Coursera
2020	**Data structures**,	UC San Diego | Coursera
2020	**AI For Everyone**,	DeepLearning.AI | Coursera