

Yash Moar

SOFTWARE ENGINEER

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Education

Vellore Institute of Technology, Vellore

B.TECH. IN ELECTRONICS AND COMMUNICATION ENGINEERING (BIOMEDICAL) • CGPA: 7.7

Tamil Nadu, India

May 2022

MP & EV English Medium High School, Visakhapatnam

INTERMEDIATE EDUCATION (CBSE) • PERCENTAGE: 81.2%

Andhra Pradesh, India

May 2017

Skills

Programming	Python, JavaScript, JAVA, C, C++, PHP, MySQL, LaTeX, MATLAB
DevOps	AWS, Docker, Kubernetes, Jenkins
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