Mohammed Arif

Banashankari, Bengaluru, Karnataka | mdarif1843@gmail.com | +91 9686822521 | LinkedIn | GitHub

Career Objective

Motivated Computer Science student with hands-on experience in Python, JavaScript, and full-stack development, seeking a **Software Developer** or **Frontend Developer Intern** role. Passionate about building scalable web applications and AI-driven solutions, with a focus on clean code, agile practices, and real-world impact through projects like drone-based monitoring systems.

Technical Skills

Programming Languages: Python, Java JavaScript, HTML5, CSS3
Frameworks & Libraries: Django, React, Springboot,Bootstrap
Databases & Tools: MySQL, NoSQL, Git/GitHub, Docker, Firebase
Cloud & DevOps: AWS (EC2, S3, Lambda, CloudFormation)
Soft Skills: Problem-Solving, Team Collaboration, Quick Learner

Experience

Engineer Trainee (Software Development Focus), CSST (Center for Space Science & Technology), Bengaluru

- Developed real-time crop disease monitoring system using Python and drone APIs, integrating ML models to increase detection precision by 35% and optimize data processing pipelines.
- Built automated detection algorithms in TensorFlow, reducing pesticide waste by 28% through efficient image analysis scripts.
- Designed and implemented a responsive web dashboard with ReactJS and MySQL backend, enabling seamless visualization of crop health data for stakeholders.
- Led development of an AI-powered drone system for automated pesticide spraying, incorporating GPS navigation and version-controlled code on GitHub.

Projects

E-commerce Website

- Developed a dynamic e-commerce platform using Spring Boot (Java) for backend APIs and React for frontend UI, supporting user registration and product browsing.
- Implemented shopping cart, order management, and payment integration with RESTful APIs and MySQL database, ensuring secure and scalable transactions.
- Optimized frontend with Bootstrap for responsive design, reducing load times by 25% through code refactoring and testing.

Plant Disease Detection System

- Developed embedded software on Raspberry Pi to capture and preprocess drone images, using TensorFlow Lite for on-device ML inference.
- Created a cross-platform React Native frontend for real-time disease prediction display, with API integrations for data syncing; reduced latency by 40%.

Employee Management System

- Built a complete CRUD application with Django backend (Python) and React frontend, allowing secure employee record management (create, read, update, delete).
- Implemented user authentication and database optimization with MySQL, ensuring scalable performance for 100+ simulated users.

Education

B.Tech in Computer Science and Engineering, Dayananda Sagar University, Bengaluru
CGPA: 7.38/10

Certifications

- AWS Academy Introduction
- Python Bootcamp: Udemy
- Docker for Java Developers, Udemy

Achievements

- Published IEEE research paper: *"Smart Management of Crop Monitoring Using Drone Technology"*, showcasing software integration in AI systems.
- Selected for CSST mentorship program among 200+ applicants, focusing on software development for space tech applications.

Additional Information

Languages: English (Fluent), Kannada (Native), Hindi, Urdu, Telugu
Interests: Cricket, Carrom, Tech Podcasts, Open-Source Contributions