

# BALAJI THOTA

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## WORK EXPERIENCE

### **Omnytrix Integrated Labs - Hyderabad, Telangana, India**

**May 2022 – Nov 2022**

#### Web App Developer Intern

- Developed and deployed web applications for IoT and automation projects, integrating real-time sensor data into intuitive web interfaces, improving data processing efficiency by 15%.
- Worked with various teams to optimize automation workflow, enhancing system efficiency and reducing manual intervention.
- Utilized HTML, CSS, Python, JavaScript, and backend technologies to build responsive, user-friendly web solutions, improving user engagement.
- Assisted senior developers in troubleshooting and optimizing existing platforms, reducing system downtime by 10%.

Tech Stack: HTML, CSS, JavaScript, IoT Integration, Backend Technologies, Web Development, Automation Systems, Git, Agile

## PROJECT EXPERIENCE

### **Orgdb Database Management System | MySQL, Python | [GitHub](#)**

**Feb 2024**

- Developed Orgdb Database Management System for efficient data management and role-based access control. Implemented login management, admin privileges, and a user-friendly interface for secure operations.

### **Image Captioning | Python, PyTorch | [OneDrive](#)**

**Apr 2024**

- Built an image captioning system using LSTM attention mechanism generating human-like descriptive captions for images using the Flickr-8k dataset. Integrated glove context into mechanisms for more accurate, context-aware captions, enhancing accessibility and retrieval.

### **Android Malware Detection | Python, TensorFlow | [GitHub](#)**

**Nov 2023**

- Developed an Android malware detection system using machine learning with static and dynamic analysis to enhance mobile security. Enhanced security by identifying malware, mitigating risks of financial loss, identity theft, and privacy breaches.

### **Detection Of Drowsiness | Python, OpenCV, Haar cascades | [GitHub](#)**

**Apr 2023**

- Developed a real-time drowsiness detection system using OpenCV Haar cascades for face and eye detection, and applied Eye Aspect Ratio (EAR) calculation to accurately detect signs of drowsiness.

## SKILLS

**Technical Skills:** C, Python, R, HTML, CSS, Flask, Matplotlib, Data Structures & Algorithms.

**Tools:** GIT, PyCharm, MySQL, SQL, Windows.

**Soft Skills:** Teamwork, Time Management, Leadership.

## EDUCATION

### **State University of New York, Utica, NY**

**Jan 2023 – Dec 2024**

#### **Master of Science in Computer Science**

**Related Courses:** Database Systems, Operating Systems, Software Engineering, Data Science, Algorithms & Complexity, Distributed Systems.

GPA: 3.44/4.00

### **TKR College of Engineering and Technology, Hyderabad**

**2018 – 2022**

#### **Bachelor of Technology in Computer Science**

**Related Courses:** Python, C, Probability and Statistics, DS & Algo, OOPS, DBMS, Compiler Design

CGPA: 7.55/10.00

Software Engineering, Computer Organization, Computer Networks, Design and Analysis of Algorithms

## CERTIFICATIONS

- Python Programming | Calyx Software Solution, Apr 2021
- Full Stack Web Development Bootcamp | Udemy, Jun 2021
- Web Designing | Sololearn, June 2021