

# SHASHANK REDDY BOYAPALLY

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## EDUCATION and ACADEMIC QUALIFICATIONS

University of Florida, Gainesville, Florida.

Aug '22 – Present

Master of Science, Computer Science.

Jawaharlal Nehru Technological University College of Engineering Hyderabad, Hyderabad, India.

Aug '18 – Jun '22

Bachelor of Technology, Computer Science & Engineering, CGPA: 8.58/10 or 3.9/4 (according to WES evaluation)

## TECHNICAL SKILLS

Web Dev & DB:	React Native	ReactJS	ExpressJS	Django	PostgreSQL	MySQL	MongoDB	Firebase
Cloud:	AWS	GCP	Kubernetes	Docker	Terraform	Jenkins	Cron	OpenShift
ML & Mobile:	TensorFlow	OpenCV	CNN	RNN	Selenium	Automation	Android	Flutter
Tools:	Git & GitHub	Bamboo	Postman	Octopus	Confluence	Jira	REST API	CI/CD
Languages:	C and C++	Java	Python	JavaScript	Erlang	TypeScript	HTML	CSS

## INTERNSHIPS

- Software Engineering Intern, Honeywell Technological Solutions (Aero Division), Hyderabad.** Mar '22 – May '22
  - Migrated the Business Management System - manages the Billing and subscription service operated by AMRs from Internet Explorer to Chromium based browsers, completed the migration before the deprecation of IE security single-handedly.
  - Used struts framework along with JSP. Saved up to **165 hours** per month of manual work done by AMRs. **Boosted efficiency.**
  - Takeaway:** Gained knowledge how legacy applications work and maintained.
- Software Engineering Intern, Honeywell Connected Enterprises, Bangalore.** Apr '21 – Jun '21
  - Developed an automated testing environment using Octopus and Protractor in an Agile environment, **conserving time for the task from 60 to 5 mins. Boosted efficiency up to 80%.**
  - Leveraged React in the Front-end and Django for backend along with usage of Microsoft Azure PostgresDB and Storage.
  - Takeaway:** Grasped hands-on projects and an idea of the way industry works along with its principles. Learnt various web technologies – React, Django, Bamboo.
- Data Analytics Virtual Intern, KPMG International, WFH.** Apr '20 – May '20
  - Analysed quality of the dataset provided by a medium-sized bike accessories company, Sprocket Central.
  - Assessed dataset, performed data transformations, feature engineering, and modelling using various tools like Tableau and Power BI. It led to **discovery of 40% more potential customers** based on demographics and transaction history.
  - Takeaway:** Worked on data from real world, realized the potential hurdles one might face using the real-world data, and steps to overcome those hurdles in data analysis.

## PROJECTS

- Pedestrian Jaywalking Detector** Mar '22 – May '22

**Objective:** Identify pedestrians who jaywalk at traffic signals and on roads, identify them with their facial structure and map the identified violators with Aadhar Database (Govt. of India Database for citizens). A fine is levied after mapping on the violator. The violator is also notified through email and SMS through Twilio. Achieved up to 91% accuracy on sample size of 86 students.

**Role:** Team lead, Computer Vision Developer and Back-end Dev.

**Tools used:** TensorFlow, OpenCV, mediapipe, YOLOv3, dlib, face\_recognition, MySQL, Twilio.
- COVID-19 Help Desk** Mar '21 – May '21

**Objective:** Provide information about the availability of beds and various medications available in each hospital for citizens, along with filters based on location of user during the severe second wave of COVID-19. Co-ordinated and led the team.

**Role:** Team Lead, Full Stack Web Developer, and Mobile Application Developer.

**Tools used:** ReactJS, Material UI and other various libraries, Firebase, React Native for Mobile Application Development.
- Heal Meal** Dec '20 – Feb '21

**Objective:** Design and Develop a subscription-based system for people who have specific dietary requirements and food allergies. Achieved the said requirements in 5 weeks using agile methodologies in 5 sprints.

**Role:** Full Stack Developer and Team-lead.

**Tools used:** Amazon Web Services, Go, JavaScript, ReactJS, MySQL, Cron.

## PUBLICATIONS and PRESENTATIONS

- Published a research article** *Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumour Detection*.  
**Takeaway:** Compared various pre-trained neural networks and analysed which can be used for practical purposes.
- Attained second position** in paper presentation on *Facial Recognition and Attendance System Using dlib and Face Recognition Libraries* in a state-level conference conducted by Computer Society of India, since 1965. (Dec '20).  
**Takeaway:** Understood how paper presentations are organized, met many industry leaders and got to know their experiences.

## CERTIFICATES

- Google Cloud Program, Dec '20.
- Certificate of Merit, CSI, Nov '20.
- Hacker Rank Certified Python Programmer, Jun '20