

SHASHANK REDDY BOYAPALLY

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EDUCATION and ACADEMIC QUALIFICATIONS

University of Florida, Gainesville, Florida.

Aug '22 – Present

Master of Science, Computer Science. CGPA: 4.0/4.0

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	Spring Boot	Django	PostgreSQL	MySQL	MongoDB	Firebase
Cloud:	AWS	Kafka	Kubernetes	Docker	Terraform	Jenkins	OpenShift	Cron Jobs
ML & Mobile:	TensorFlow	OpenCV	CNN	RNN	GenerativeAI	Automation	Android	Flutter
Tools:	Git & GitHub	Bamboo	Postman	Octopus	Viper	JIRA	REST API	CI/CD
Languages:	Python	Java	Golang	JavaScript	Erlang	TypeScript	C&C++	HTML&CSS

WORK EXPERIENCE and INTERNSHIPS

- Software Engineering Intern, Red Hat Inc. (OpenShift Performance and Scale Engineering), Raleigh, USA. Jun '23 – Present**
 - Engineered an **enhancement** to Kube-burner to measure cluster latency metrics up to **precision of 1ms**. Skilfully captured **P99, P50** metrics for manually deployed workloads. Leveraged **client-go library** of Kubernetes to measure latencies.
 - Spearheaded **testing** of critical go-commons and kube-burner libraries, **pivotal in gauging workloads** organization-wide. Remarkably achieved **coverage of 95%**. Seamlessly mocked dependencies using **Go-mock**. **Ginkgo** and **Go-mega** for tests.
 - Currently leading development of GPT based chatbot, intelligently **indexing vast organizational knowledge** to provide insightful and prompt answers to queries. Expertly indexed up to **1k documents** applying innovative langchain framework. Leveraged Flask and Cron in backend, with TypeScript ReactJS in frontend.
- 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 migration before the deprecation of IE security single-handedly in 60 days.
 - Utilized struts framework along with JSP. Saved up **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 industry workings along with its principles. Learnt various web technologies – React, Django, Bamboo.
- Data Analytics Virtual Intern, KPMG International, WFH. Apr '20 – May '20**
 - Assessed dataset, performed data transformations, feature engineering, and modelling using various tools as Tableau and Power BI. It led to **discovery of 40% more potential customers** based on demographics and transaction history. **Takeaway:** Analyzed on data from real world, realized potential hurdles one might face using real-world data, and steps to overcome those hurdles in data analysis.

PROJECTS

- Finance Tips Bot | Python, PRAW, beautifulsoup, OpenAI, langchain, SMTP, Cron, AWS. Jun '23 – Present**
Objective: Develop a real-time bot, scraping data from the subreddit r/wallstreetbets, employed PRAW library for efficient data gathering. Used OpenAI API in integration with langchain to summarize collected data. Leveraged SMTP and Cron for daily feed.
- Pedestrian Jaywalking Detector | TensorFlow, OpenCV, mediapipe, YOLOv3, dlib, MySQL, Twilio. Mar '22 – May '22**
Objective: Identify pedestrians jaywalking at traffic signals exercising mediapipe, identify faces with facial structure and map 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.
- No Touch Volume Controller | OpenCV, PyTorch, mediapipe, numpy. Mar '21 – May '21**
Objectives: Leveraged the power of OpenCV along with mediapipe and Pytorch to increase and decrease the volume by just using hands, inspired from a real-world problem where remote was being frequently used while eating, Normalized the Db unit to mm.

PUBLICATIONS and PRESENTATIONS

- Published a research article Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumour Detection.**
- 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).

CERTIFICATES

- Google Cloud Program, Dec '20.
- Certificate of Merit, CSI, Nov '20.