

Shashank Reddy Boyapally

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EDUCATION and ACADEMIC QUALIFICATIONS

University of Florida, Gainesville, Florida, USA.

Aug '22 – Dec '23

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**

TECHNICAL SKILLS

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

WORK EXPERIENCE and INTERNSHIPS

- Red Hat Inc.** - OpenShift PerfScale Engineering, Raleigh, USA. Jun '23 – Aug '23
Software Engineer Intern
 - Engineered an enhancement to Kube-burner to measure cluster latency metrics up to **precision of 1ms** and captured **P99 and P50** metrics for deployed workloads. Leveraged **client-go library** of **Kubernetes** to measure latencies.
 - Developed **GPT** based chatbot, intelligently indexing vast organizational knowledge of up to **1k documents** applying innovative **langchain framework**. Leveraged **Flask** and **Cron** in backend, with **TypeScript ReactJS** in frontend.
 - 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.
- Honeywell Technological Solutions** - Aero Division, Hyderabad. Mar '22 – May '22
Software Engineer Intern
 - 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 work done by AMRs. Boosted efficiency.
- Honeywell Connected Enterprises** – SRE Division, Bangalore. Apr '21 – Jun '21
Software Engineer Intern
 - 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 **ReactJS** in the Front-end and **Django** for backend along with usage of **Microsoft Azure PostgresDB** and Storage.
- KPMG International**, WFH. Apr '20 – May '20
Data Analytics Virtual Intern
 - 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.

PROJECTS

- Finance Tips Bot** | *Python, PRAW, beautifulsoup, OpenAI, SMTP, Cron, langchain, AWS.* Jun '23 – Present
 - 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
 - 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.
- COVID-19 Help Desk** | *ReactJS, Material UI and other various libraries, Firebase, React Native.* Mar '21 – May '21
 - Contribute information about 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.

PUBLICATIONS and PRESENTATIONS

- Published a research article** *Comparative Analysis of Different Pre-trained Deep Learning Models for Brain Tumour Detection.*
- Secured 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.
- Academic Achievement Award, University of Florida.