**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**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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*](http://www.gjstx-e.cn/gallery/71-sep2021.pdf) *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.