DILIP TEJA

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WORK EXPERIENCE

Software Engineer Co-op | MSA - The Safety Company | Cranberry, PA .... **Jan 2024 – Apr 2024**

- Architected and deployed a scalable server-side solution using **WebSockets** and **Threading**, enabling real-time monitoring of connected plugins, slashing connection latency by over 60 seconds.
- Restructured client-side components into **back-end**, enhancing integration efficiency by 33% across five projects.
- Resolved 3 high-priority bugs along with comprehensive test cases in a dynamic Agile environment, utilizing **DevOps** tools to improve system reliability.

Software Engineer | Qualcomm | Hyderabad, India .... **Jun 2020 – Dec 2022**

- Engineered an end-to-end full-stack web application(*(full ownership)* streamlining hardware inventory management, and real-time reports generation, reducing company costs by more than **$100k** annually.
- Led design and development of robust change-based test engine(CBT) for IoT products to curate test suites dynamically, based on code deltas in new builds, optimizing run time by over 70% for every incoming build.
- Implemented **RESTful APIs** in Python and paired it with **React** front-end to enable seamless CRUD operations on **MongoDB** CBT suites, achieving a 35% boost in kernel code coverage.
- Collaborated with cross-functional teams and enabled API Integration process to 5 different IoT components.
- Eliminated false positives and devised new scenarios as part of **Linux Kernel** automation, improving overall QA quality by 18% and pioneered structured and perpetual documentation.
- Conducted 10+ knowledge-sharing sessions on **Python, Design Patterns, and Software Design**, fostering team expertise and promoting best practices across projects.

Software Engineer Intern | Qualcomm | Hyderabad, India .... **Apr 2019 – Jun 2019**

- Developed a tool to schedule automation suites execution during off-peak hours and paired it with an admin-driven **Django** dashboard for visualization of results, optimizing hardware utilization by 50%.

PROJECTS

Group Chat System 🐙 | *Go, gRPC, Protocol Buffers, docker*

- Created a distributed chat system with 5 servers and multiple clients featuring availability, synchronization, eventual consistency, replication, fault/partition tolerance.
- Incorporated Two-phase locking, Vector timestamps of partial ordering, Bidirectional Streaming.

De-identification of PHI in EHR 🐙 | *Pytorch, LLM, Hugging Face*

- Performed transfer learning on pre-trained large language models such as **BERT, LLaMA** to de-identify protected health information(PHI) in electronic health records(EHR) dataset.
- Leveraged **Tokenization, BIO encoding** and other NLP techniques to achieve an average F1 score of 0.98.

TECHNICAL SKILLS

Programming Languages : Python, Go, JavaScript, TypeScript, C++, SQL, HTML

Technologies & libraries : React, Redux, Django, Flask, Node, Express, Next, JQuery, TailwindCSS, gRPC, Protocol Buffers, REST API, FastAPI, Git, Github, Docker, Prometheus, Grafana, Pytorch, Google Colab, Windows, Linux

Database & Cloud Services : MySQL, PostgreSQL, MongoDB, AWS

Methodologies : JIRA, Agile, CI/CD, Software Development Life Cycle(SDLC)

EDUCATION

University of Pittsburgh .... **Jan 2023 – Apr 2025**
Master of Science in Computer Science .... Pittsburgh, PA
Coursework: Distributed Systems, Advanced Algorithms, Databases, AI, Machine Learning, Natural Language Processing

National Institute of Technology, Warangal .... **Jun 2016 – May 2020**
Bachelor of Technology in Electronics and Communication .... Warangal, India
Relevant Coursework: Data Structures and Algorithms, Computer Networks, Object-Oriented Programming(OOP), Statistics

AWARDS AND ACHIEVEMENTS

- Recipient of **Orion Insta** and **Top Executor Awards** from Senior Director at Qualcomm for contribution and efforts.
- Secured **second place** in Microsoft's Code.Fun.Do Hackathon among 50+ teams across university.
- Achieved **All India Rank 602** in IIT-JEE Mains among over 1.2 million candidates.
- Led university badminton team as captain for 2 consecutive years, securing top positions in inter-university tournaments.