DILIP TEJA

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EDUCATION

University of Pittsburgh   **Jan 2023 – Apr 2025**
Master of Science in Computer Science; GPA: 3.54   Pittsburgh, PA

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 in Java

TECHNICAL SKILLS

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

Frameworks & Libraries : Django, Flask, React, Node, TailwindCSS, gRPC

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

Development Tools : Git/Github, Docker, JIRA, Agile, Linux, VS Code, PyCharm

WORK EXPERIENCE

Software Engineering Co-op | MSA - The Safety Company | Pittsburgh, PA   **Jan 2024 – Apr 2024**

- Spearheaded implementation of server side feature of an internal tool leveraging **Web Sockets** and **Threading** mechanism to collect status of connected plugins, reducing connection time by more than 60 seconds.
- Restructured few client-side activities into backend, making efficient and seamless client integration into five different projects.
- Resolved multiple high-priority bugs while working in Agile environment and gained familiarity with DevOps tools.

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

- Headed development of change-based test mechanism that picks limited suite based on delta in new build, optimizing run time by over 50% for every incoming change.
- Implemented **Python**-based **REST API** to query **MongoDB** containing complete execution suite, increasing code coverage by 20% and equipped cross-functional teams with API integration process.
- Resolved multiple high priority bugs and pioneered collaborative documentation of kernel automation, avoiding false positives to increase accuracy.
- Devised and developed an end-to-end full-stack web application delivering data analytics on reports, hardware utilization, currently in production with over 500 active users.
- Built the application using **Python Django** as backend, **React**, **Tailwind CSS** as frontend with **PostgreSQL** database and deployed with Apache server.
- Ensured fulfilment of requirements by communicating with stakeholders through frequent meetings throughout software development life cycle.

Software Engineering Intern | Qualcomm Inc | Hyderabad, India   **Apr 2019 – Jun 2019**

- Developed tool to invoke test automation suites during non-working hours, enhancing hardware utilization by 30%
- Complemented it with an admin-driven **Flask** web application for visualization of results.

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.

AWARDS AND ACHIEVEMENTS

- Recipient of **Orion Insta Award** from Senior Director at Qualcomm for significant contribution and efforts.
- A three-time recipient of **Top Executor Award** at Qualcomm for driving execution within deadlines.
- Secured **second place** in Microsoft's Code.Fun.Do Hackathon among 50+ teams across university.
- Secured **All India Rank 602** in IIT-JEE Mains among over 1.2 million candidates.