

# DILIP TEJA

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## EDUCATION

### University of Pittsburgh

*Master of Science in Computer Science; GPA: 3.54*

Jan 2023 – Apr 2025

Pittsburgh, PA

### National Institute of Technology, Warangal

*Bachelor of Technology in Electronics and Communication*

Jun 2016 – May 2020

Warangal, India

**Relevant Coursework:** Data Structures and Algorithms, Computer Networks, Object Oriented Programming in Java

## TECHNICAL SKILLS

**Programming Languages :** Python, Java, C++, Go, JavaScript, 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

## PROFESSIONAL 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 using **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 an Agile environment and gained familiarity with DevOps tools

### Software Engineer | [Qualcomm Inc](#) | Hyderabad, India

Jun 2020 – Dec 2022

- Headed the 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.
- Enabled **Python**-based **REST API** to query **MongoDB** containing complete execution suite, increasing code coverage by 20% and provided API integration process to cross-functional teams.
- Contributed to multiple bug fixes and pioneered collaborative documentation of kernel automation, avoiding false positives to increase accuracy.
- Devised and developed an end-to-end full-stack web application providing 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 using Apache server.
- Ensured fulfilment of requirements by communicating with stakeholders through frequent meetings throughout the 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, providing visualization of results.

### Machine Learning Intern | [IIIT, Bangalore](#) | Bangalore, India

Apr 2018 – Jun 2018

- Worked on ML techniques like data collection, data augmentation and fine-tuning existing models.

## PROJECTS

### Group Chat System | *Python, 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

## 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.