

# DILIP TEJA

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## EDUCATION

<b>University of Pittsburgh</b> <i>Master of Science in Computer Science; GPA: 3.54</i>	<b>Jan 2023 – Apr 2025</b> Pittsburgh, PA
<b>National Institute of Technology, Warangal</b> <i>Bachelor of Technology in Electronics and Communication</i>	<b>Jun 2016 – May 2020</b> Warangal, India

## TECHNICAL SKILLS

**Programming Languages** : Python, JavaScript, TypeScript, Go, C++, SQL, HTML/CSS  
**Frameworks & Libraries** : Django, Flask, React, Node, ExpressJS, NextJS, TailwindCSS, gRPC  
**Database & Cloud Services** : MySQL, PostgreSQL, MongoDB, AWS  
**Development Tools** : Git/Github, Docker, JIRA, Agile, Linux

## WORK EXPERIENCE

<b>Software Engineering Co-op</b>   MSA - The Safety Company   Pittsburgh, PA	<b>Jan 2024 – Apr 2024</b>
<ul style="list-style-type: none"><li>Spearheaded implementation of server side feature of an internal tool leveraging <b>Web Sockets</b> and <b>Threading</b> mechanism to collect status of connected plugins, reducing connection time by more than 60 seconds.</li><li>Redesigned client-side functionalities into the <b>backend</b>, enabling efficient and seamless client integration across five distinct projects.</li><li>Resolved multiple high-priority bugs while working in Agile environment and gained familiarity with DevOps tools.</li></ul>	
<b>Software Engineer</b>   Qualcomm Inc   Hyderabad, India	<b>Jun 2020 – Dec 2022</b>
<ul style="list-style-type: none"><li>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.</li><li>Implemented <b>Python</b>-based <b>REST API</b> to query <b>MongoDB</b> containing complete execution suite, increasing code coverage by 20% and equipped cross-functional teams with API integration process.</li><li>Resolved multiple high priority bugs and pioneered collaborative documentation of kernel automation, avoiding false positives to increase accuracy.</li><li>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.</li><li>Built the application using <b>Python Django</b> as backend, <b>React</b>, <b>Tailwind CSS</b> as frontend with <b>PostgreSQL</b> database and deployed with Apache server.</li><li>Drove project success by ensuring stakeholder alignment through regular, outcome-focused meetings, leading to timely and accurate delivery of software requirements.</li></ul>	
<b>Software Engineering Intern</b>   Qualcomm Inc   Hyderabad, India	<b>Apr 2019 – Jun 2019</b>
<ul style="list-style-type: none"><li>Developed tool to invoke test automation suites during non-working hours, enhancing hardware utilization by 30%</li><li>Complemented it with an admin-driven <b>Flask</b> web application for visualization of results.</li></ul>	

## PROJECTS

<b>Group Chat System</b> 🗯   <i>Go, gRPC, Protocol Buffers, docker</i>
<ul style="list-style-type: none"><li>Created a distributed chat system with 5 servers and multiple clients featuring availability, synchronization, eventual consistency, replication, fault/partition tolerance.</li><li>Incorporated Two-phase locking, Vector timestamps of partial ordering, Bidirectional Streaming.</li></ul>

## 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.