

SAI KRISHNA. CHEKKA

(419) 378-6513 | schekka@rockets.utoledo.edu | Toledo, OH
<https://www.linkedin.com/in/saikrishna-chekka-881339221>

EDUCATION

The University of Toledo

Bachelor of Science in Computer Science & Engineering

January 2024 – Present

Kalasalingam Academy of Research and Education

Bachelor of Science in Computer Science & Engineering

August 2021 – December 2023

Achievements

University of Toledo Merit Scholarship Recipient (2024-2025)

SKILLS

- **Programming Languages:** Java, SQL, HTML, C, CSS, Python.
- **Tools:** Microsoft office, Nmap, Metasploit, Wireshark, Burp Suite, Snort, Multi Sim, Burp Suite, AWS, Network protocols.
- **Soft skills:** Communication, Critical thinking, Leadership, Problem-solving, Process Improvement, Attention to detail, Learning agility, Analytical skills.

WORK EXPERIENCE

IT Student Technician

The University of Toledo Medical Center

October 2024 – Present

- Deliver comprehensive technical assistance to healthcare professionals by diagnosing and resolving complexities related to hardware, software, and advanced medical instrumentation.
- Facilitate the deployment, optimization, and sustained functionality of IT infrastructures and software solutions, ensuring seamless performance across clinical and administrative domains.
- Enforce and oversee robust security protocols to fortify patient data integrity. Aid in administering user access controls, proactively detecting security vulnerabilities, and mitigating threats to ensure the protection of confidential information.

IT Administrative Assistant

Kalasalingam Academy of Research and Education

July 2022 – March 2023

- Diagnose and resolve recurring IT challenges for staff and students, serving as the primary point of support. Conduct systematic issue identification, execute effective resolutions, and maintain thorough documentation for continuous improvement.
- Facilitate the deployment and configuration of computing systems and essential software applications, encompassing hardware setup, software installations, user-specific customizations, and comprehensive functionality testing.

Project Experience

- **Secure payment interface for Blind people with multiple payment systems** January 2023- May 2023
This initiative was conceptualized to address the transactional challenges encountered by individuals with visual impairments. The application leverages Google's speech recognition technology, enabling users to initiate financial transactions through voice-command authentication. By articulating predefined verbal cues, users can seamlessly navigate payment modalities, including bank transfers, mobile transactions, and card-based processing.
- **Flooding network using DoS & DDoS techniques** January 2023- May 2023
Saturating a network infrastructure through DoS (Denial of Service) and DDoS (Distributed Denial of Service) methodologies entails inundating the target server or network with an excessive volume of malicious traffic. This orchestrated overload exhausts system resources, leading to significant latency, service degradation, or complete unavailability for legitimate users.
- **Brute Forcing attack using Burp Suite** June 2022-July 2022
A brute force attack, executed using Burp Suite, is an exhaustive credential-cracking technique that systematically iterates through numerous potential authentication keys to gain unauthorized system access. This method is employed in various intrusion scenarios, including credential enumeration and unauthorized account penetration, by algorithmically cycling through all conceivable username-password permutations.
- **Sun-tracking solar panels to maximize solar energy usage** July 2022 -November 2022
Engineered an enhanced photovoltaic module incorporating dynamic solar tracking mechanisms to maximize solar energy harnessing. This adaptive system autonomously adjusts its angular orientation relative to the sun's trajectory, optimizing incident solar radiation absorption and overall energy conversion efficiency.

College Activities

- Represented the University of Toledo in the Cyber Force competition, tackling complex cybersecurity challenges.
- Led event management for the Cybernerds club, organizing impactful technical events.
- Coordinated multiple events as the technical lead of the Google Developer Student Club, promoting innovation and technology adoption.