

# Abtsega Tesfaye Chufare

ComputerTechnologist

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[Linkedin](#) | [Github](#) | [Orcid](#) | [Leetcode](#)

As a Computer Science and Engineering student, I am deeply passionate about computer technology, development, and security. Throughout my academic and professional journey, I have actively pursued opportunities to learn about and work on projects/researches related to these fields. I am constantly seeking new challenges and experiences to expand my knowledge and skills in the world of technology.

## Work Experience

### [Research Fellow - Link](#)

Bhubaneswar

02/2022

KIIT RESEARCH CENTER

- Assisted with maintenance and development of computational tools previously developed in the lab
- Executed high risk cyber security incidents by working in conjunction with response partners
- Mentored junior staff, provide development programs for such staff and ensure technical progress of their abilities

### [Cybersecurity Analyst - Link](#)

\_07/2022 to Present

USA(Remote)  
JP Morgan CHASE&CO

- Interfaced with a stock price data feed and set up your system for analysis of the data. Worked with data of security critical systems.
- Designed and implemented security measures for micro services communication.
- Evaluated the impact of security measures on application performance.

### [Cybersecurity Team Member\(Remote\)](#)

Canada

02/2022- Present

CANADIAN CYBERSECURITY NETWORK

- Collaborate with other technical personnel to ensure mitigation of risks to the company.
- Member of an International cybersecurity forum situated in Canada. Participate in weekly forums, hackathons and meetups hosted in cybersecurity risk mitigation.

### [Cybersecurity Team](#)

Bhubaneswar

07/2022 -Present

KIIT IOT LAB

- Developed a Chrome browser extension enhancing user privacy through advanced security features.
- Assessing proposed system changes, as part of configuration management process, to determine impact to security designs.
- Undergoing project on mobile application capable of detecting time wastage in college students using Machine Learning model.

### [Flutter Developer & Network Risk Assessor - Link](#)

Mumbai

07/05/23- 07/08/23

KENMARK ITAN SOLUTION

- Implemented encryption and authentication mechanisms to protect user data. Conducted user studies to assess the usability and effectiveness of the extension. depth analysis of mobile applications to identify vulnerabilities and privacy risks.
- Utilized static and dynamic analysis techniques to assess app security.

### [Cybersecurity Team - Link](#)

USA(Remote)

02/2023

Delloite

- Investigated a malicious software arising in a different online companies..
- Demonstrated a data security and vulnerabilities in financial companies.
- Analyzed a Forensic investigation on some of criminal data breaches worldwide.

## Education

### [Kalinga Institute of Industrial Technology](#)

India

Bachelor's in Computer Science and Engineering 09/2021  
to Present

### [APISEC UNIVERSITY](#)

USA(Virtual)

Cybersecurity

05/2022 to Present

### [ALX Africa](#)

South Africa(Virtual)

Software Engineering

02/2022 to 02/2023

## Skills

**Programming Languages:** C/C++, Python, Javascript, Express, NodeJs, Dart, Java, Shell Scripting,

**Database:** Oracle, NoSQL(MongoDB), SQL, Query Optimization

**Cybersecurity Tools:** Wireshark, Nessus, Metasploit, Nmap, Burp Suite

**Research Skills:** Research Paper Writing and Publication, Threat Intelligence Research, Malware Analysis, Vulnerability Assessment

## Projects

### [File Metadata-Microservice](#)

**Technologies Used:** Authentication and Authorization, API Gateway,

**Project Link / GitHub Repository:** [Link](#)

Description:

- Expertised in File Metadata Management in a Micro services Architecture. Using Spring Boot and Flask,
- Created modular micro services for efficient metadata handling. These micro services seamlessly integrate with databases like PostgreSQL and MongoDB.

### [International Conference On Distributed Computing and Intelligent Technology\(ICDCIT\) Project](#)

**Technologies Used:** Penetration Testing, Network intrusion, Cybersecurity threat mitigation tools

**Project Link / GitHub Repository:** [Link](#)

Description:

- Encompasses a wide range of topics, from distributed systems, cloud computing, and edge computing to artificial intelligence, machine learning, and data analytics.
- Engages in thought-provoking discussions, attend insightful keynote presentations,

### [AI Image Generator & Cyber](#)

**Technologies Used:** JavaScript, NodeJs, Midjourney API

**Project Link / GitHub Repository:** [Link](#)

**Description:**

- showcases the fusion of creativity and technology of AI for image creation and cyber mitigation.
- Added Midjourney API integration adds an extra layer of depth by providing access to a diverse range of image styles and elements

**[QR-based-Library-Attendance-System-Backend](#)**

**Technologies Used:** Javascript, Nodejs, HTML, CSS, Excel, Python

**Project Link / GitHub Repository:** [Link](#)

**Description:**

- Designed to streamline and enhance the process of recording and managing library attendance by utilizing QR codes.
- Developed using JavaScript and relevant frameworks, this project offers a user-friendly experience.

## Publications

**[Cybersecurity Imminent Threats with Solutions in Higher](#)****[Education](#) - [Link](#)**

05/2023

- In collaboration with esteemed professors, Dr. Debajyoty Banik and Dr. Mahendra Kumar, I conducted in-depth research on imminent cybersecurity threats in higher education.
- Our comprehensive analysis of emerging vulnerabilities and their impact culminated in research paper published.
- Addressed critical issues like data breaches and phishing attacks, offering valuable insights

## Certifications / Licenses

**[Cybersecurity Roles, Tools & Operating System \(IBM\)](#) - [Link](#)**

- Acquired a comprehensive understanding of various cybersecurity roles, ranging from network security analysts to ethical hackers, and their responsibilities within organizations.

**[Foundations of Cybersecurity \(Google\)](#) - [Link](#)**

- Developed a holistic understanding of cybersecurity fundamentals, covering various aspects of digital security, privacy, and risk management.

**[Problem Solving- Intermediate \(Hackerrank\)](#) - [Link](#)**

- Demonstrated a high level of proficiency in algorithm design and implementation through solving a range of intermediate-level problems.

## Awards

Silver Honor in International Youth Math Competition - [Link](#)

Silver Honor in International Astronomy and Astrophysics Competition - [Link](#)