

# MUHAMMAD TAYYAB SHEIKH

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## SUMMARY

Computer Science Bachelor with **3+ Years of experience** of Web Development in Node.js, React and Python.



## EXPERIENCE

### Software Engineer | Envoy Innovations (Xcentric Services)

JANUARY 2021 – PRESENT

Back-end and Front-end development using **Python**, **Node.js**, **React/React Native** and **PostgreSQL** on a specialty pharmacy therapy management solution.

- Forms Development using Envoy's DSL for **Rapid Development**
- Frontend Development using CoffeeScript.
- Mobile App Development using **React Native**
- Workflow Handling using JS-Based Rule Files and **RabbitMQ**
- Converting coffee and given requirements into intuitive UI/UX and functionality.
- Handling external data streams for easy imports in Python
- Development of Backend APIs in **Node.js**
- Added features in Envoy's Domain Specific Language to make other developers' life easy.
- Troubleshooting Test Servers deployed on **AWS**.
- Managing local deployments using **Vagrant** and **Ansible**

### Full-Stack Web Developer | Virtoxed Technologies

JULY 2020 – DECEMBER 2020

Back-end and Front-end development using **Python** and **PHP**

### Trainee (R&D) | Cydea Tech (Pvt.) Ltd.

MARCH 2020 – JUNE 2020

Training to work as Researcher and Full Stack Developer in R&D Department.

- Researching and deployment of Deception Software
- Full-Stack Development of dashboards for monitoring network, systems and honeypots

### Student Researcher | COMSATS University Islamabad

JULY 2019 – NOVEMBER 2019

Explore existing products and do industry research to help in development of upcoming product.

- Researched on Breach and Attack Simulation (BAS) systems.

### Research Assistant | Trillium Information Security Systems

MARCH 2018 – MARCH 2019

Study and deploy existing software as assigned by Team Lead for the enhancement and feature introduction of another enterprise product.

- Deployment and monitoring of HoneyWall
- Worked on **Network Programming** to make a working honeypot of IP Camera using **Python**.
- Extended Glutton (Honeypot) by writing a handler/proxy for **Telnet** in **Go Lang**  
(<https://github.com/mushorg/glutton/pull/115>)
- Deployed Sysdig, Falco & Auditd and correlated them with MITRE ATT&CK Framework.
- Wrote rules related to **Atomic Red Team Test cases** to integrate them with Sysdig and Auditd

- Worked on Service Lures and deployed them on **High Interaction Linux Honeybots**



## EDUCATION

### **Bachelor of Science in Computer Science | COMSATS University Islamabad**

SEPTEMBER 2016 – SEPTEMBER 2020

- Cumulative GPA of 3.28/4.0 with 3.7 and 4.0 in most Core CS courses.
- Offered Internship two times in University for **Student Researcher** in **Cyber Security** domain.
- Arranged Web Development Workshop and Job Fair for Student Society.



## PROJECTS

### **Offensive Mamba | Automated Penetration Testing System**

<https://github.com/cstayyab/offensive-mamba><https://github.com/cstayyab/offensive-mamba>

Done as a Final Year Project for BS(CS) as a partial requirement for degree. It is an Automated Penetration Testing System that can-do Network Penetration Testing with no or very low input from a human agent. It was built using Python Flask (Backend) and React (Frontend).

### **WALC | Unofficial WhatsApp Web Client for Linux Systems**

<https://github.com/cstayyab/WALC>

Developed using Electron (Node.js), WALC provides ability to access WhatsApp Web right from your Linux desktop and it currently has **10K+ active users**. This project has been handed over to another maintainer because I could not actively work on it.

### **Glutton | Generic Low Interaction Honeybot**

<https://github.com/mushorg/glutton>

Written in Go Lang, I have contributed to it by developing a Telnet handler for this honeybot.

### **Beemy | A simple BMI Calculator**

<https://github.com/cstayyab/beemy-flutter>

An initial app to learn and test the working of Flutter.

### **CSTayyab.com | Personal Website**

<https://cstayyab.com>

A Static Website generated using Jekyll SSG



## SKILLS

- Quick Learning Ability
- Excellent Team Player
- Attention to Details
- Supreme Communication Skills
- Deep & Broad Technical Experience
- Great at Time & Task Management



## ACHIEVEMENTS AND ACTIVITIES

- Stood **1<sup>st</sup>** in **Inter-University Android Application Development** in Visio Spark 2019 arranged by COMSATS University (Wah Campus).
- Stood **3<sup>rd</sup>** in **Inter-University Speed Programming Competition** in ExclTe Cup 2019 arranged by Capital University of Science and Technology (CUST) Islamabad
- Awarded **100% Scholarship** from Grade 7 to 10 by **Teradata Cares**, **100% Scholarship** at Intermediate level by **Punjab Group of Colleges** and **100% Scholarship** at bachelor's level by **Higher Education Commission (HEC)**
- I am an **Open-source developer** and believe in giving back to community. Check out my GitHub profile <https://github.com/cstayyab>