

GEORGE SEBASTIAN

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SUMMARY

Cybersecurity professional with expertise in ethical hacking, network security, and penetration testing. Experienced in leading initiatives and developing innovative solutions. Seeking a challenging role to leverage technical skills and enhance organizational security.

PROFESSIONAL EXPERIENCE

INTERN

KOCHI

TECH BY HEART

Apr 2020 – May 2020

- Participated in a one-month remote internship at TBH in April 2020, focusing on cybersecurity.
- Worked on client-side malware execution and privilege escalation

EDUCATION

B. TECH IN COMPUTER SCIENCE AND TECHNOLOGY

Karunya Institute of Technology and Sciences

CGPA : 6.1

2021-Present

Grade 12

Devamatha CMI Public School

Percentage : 80%

2021

CERTIFICATIONS

- Google Cybersecurity (Google)
- Azure Fundamentals AZ-900 (Microsoft Certified)
- Cloud Security (Cisco)
- CCSK Foundation Training (Cisco)
- Advanced Open-Source Intelligence and Privacy (EC-Council Learning)
- Enterprise-grade AI (IBM)
- Cybersecurity Essentials (Cisco)

EXTRACURRICULARS

CYBERSECURITY CLUB

KARUNYA

HEAD

Sep 2023 - Present

- Currently serving as the Head of the Cybersecurity Club.
- Responsible for managing client relations, ensuring satisfaction, and addressing any concerns.
- Elevate the club's presence through events and competitions, fostering a vibrant cybersecurity community.

HEAD OF TRAINING AND GUIDANCE

Aug 2022 – Sep 2023

- Responsible for leading the training initiatives within the Cybersecurity Club.
- Developed and implemented training programs focused on cybersecurity principles and practices.

SKILLS

Technical

- Python
- Penetration Testing
- FastAPI
- Metasploit
- Networking

Non-Technical

- Communication
- Critical Thinking
- Team Management
- Team Leader
- Languages: Hindi, English, Malayalam, Tamil

PROJECTS

FASTAPI STUDENT MANAGEMENT SYSTEM

- Developed a RESTful API using python FastAPI to manage student and mentor data, enabling CRUD operations for both entities.
- Implemented data validation using Pydantic schemas to ensure the integrity and consistency of input data.
- Utilized a MySQL database to persist mentor and student information, enabling efficient data storage and retrieval.

SECURE API DEVELOPER - ANTI-WEBSCRAPING DEFENDER

- Developed a robust authentication service using python FastAPI framework, implementing cutting-edge security measures to defend against web scraping and malicious activities.
- Designed and implemented rate limiting middleware to prevent abuse, behavioral analysis to detect suspicious user agents, and honeypot detection to deter automated attacks.
- Integrated external IP health check services to verify the health of incoming IP addresses, ensuring the integrity of user authentication processes.

ML-ENHANCED INTRUSION DETECTOR SYSTEM (IDS) DEVELOPMENT

- Developed an AI-based Intrusion Detection System (IDS) leveraging Random Forest Regression, optimizing model performance through hyperparameter tuning techniques such as Grid Search and Random Search.
- Enhanced network security by accurately identifying and classifying network intrusions, providing a proactive defense mechanism against potential threats.
- Implemented data preprocessing techniques including feature scaling and label encoding, ensuring the data is appropriately prepared for model training and evaluation.

IOT FALL DETECTION SYSTEM WITH BLYNK INTEGRATION

- Developed an IoT-based fall detection system using an ESP32 microcontroller and MPU6050 sensor to detect sudden falls in real-time.
- Integrated the system with the Blynk IoT platform for remote monitoring and alerts, enabling users to receive notifications on their smartphones.
- Configured adjustable fall detection thresholds and provided easy-to-follow setup instructions, ensuring seamless deployment and customization for end users.

SECUREMULTIGATE

- Developed SecureMultiGate, a secure authentication system for multi-client environments, utilizing Python with Flask for server-side implementation.
- Implemented client-server communication using the requests library and integrated advanced encryption techniques using the cryptography library to ensure data confidentiality and integrity.
- Designed a scalable and customizable architecture, allowing for seamless integration with existing infrastructure and providing robust security measures for protecting sensitive resources.

CHATCONNECT

- Developed a Flutter app enabling users to easily connect with their contacts via WhatsApp.
- Implemented intuitive input validation for phone numbers, ensuring accurate communication channels.
- Integrated url_launcher for seamless redirection to WhatsApp, enhancing user engagement.

PRISON MANAGEMENT SYSTEM DEVELOPMENT

- Created a Prison Management System using Python and MySQL, integrating Tkinter for GUI and MySQL Connector for database connectivity.
- Implemented functionalities for adding, updating, and deleting prisoner records, ensuring data integrity and providing clear user feedback.
- Designed an intuitive interface with thematic styling, hover effects, and an About section for transparency and acknowledgment.