



## Education

### Master's of Technology (Ongoing) Cyber Security

Karunya Institute of technology  
and Sciences  
2022-2024

### Bachelor's of Technology Information Technology

University College of Engineering  
and Technology, Vinoba Bhave  
University  
2017-2021

### Higher Secondary Computer Science

Kendriya Vidyalaya Adra  
2005-2017



## Application Strengths

- Containerization
  - Docker
  - Kubernetes
- CI/CD
  - Git
  - Github Action
- GitOps
  - Helm
  - Argo CD
  - Flux
- Security Assessment
  - Nessus
  - Snyc
  - StackHawk
  - OWASP Zap
  - MobSF
- Monitoring
  - ELK
- Infrastructure as a Code (IaC)
  - Terraform
- Cloud Service
  - GCP
  - Azure



## Technical Skills

- CI/CD
- Containerization and Orchestration
- Automating Infrastructure
- Git Version Control
- Vulnerability Assessment
- Cloud Security
- Network Security
- Application Security
- Monitoring and Logging
- Identity and Access Management (IAM)
- Language: Python, Java, C++



## Summary

Cybersecurity enthusiast with 1+ year of experience in DevOps and Security, currently working as Teaching Research Assistant in an educational Institute while pursuing a Master's in Cyber Security. I possess a strong foundation in cybersecurity practices and technologies, demonstrating leadership and technical expertise. Committed to continuous learning, contributing to organizational progress and personal growth.



## Work Experience



### Teaching Research Assistant

#### Karunya Institute of technology and Sciences (Coimbatore)

Duration : Dec'23 - Present

- Handled subjects for undergraduate students, such as
  - Git and Github for beginner
  - Business Plan
- Conducted and completed research projects and Presented research findings in International Conferences
- Published research paper's in IEEE



### DevOps and Security Engineer

#### Ascon Softech India Pvt. Ltd. (Kolkata)

Duration : June'21 - Aug'22 (1 year 3 months)

- Developed and maintained CI/CD pipeline using Github Action
- Managed kubernetes based microservice architecture
- Deployed and managed microservice using gitops tool like helm, Argo CD, ensuring fast & reliable deployment with rollback capabilities
- Managed Docker based Web application running in Cloud Run in GCP
- Automated the deployment & scaling of cloud based infrastructure using terraform
- Conducted security assessment to identify vulnerabilities in web application, Android & iOS application
- Integrated OWASP ZAP in CI/CD to enable Automated & continuous security testing of software and infrastructure.
- Managed Identity Access Management (IAM) system to manage user access and privacy to mitigate security risk and ensure Compliance with industry standard and regulation



## Internship Experience



### TCS iON

Duration : 2 months

- To understand OWASP top 10 vulnerabilities
- Learned about Dynamic and Static Testing of Web application.
- Penetration testing using Burp Suite and OWASP Zed proxy attack (ZAP) tool.



### Ethical Edufabrica Pvt. Ltd

Duration : 1 months

- To understand Advance Ethical hacking
- Vulnerable analysis penetration testing
- Done project on Hack the Box.



## Badges Earned





## Personal Skills

- Strong Leadership and Motivational skills
- Enthusiastic learner
- Excellent in communication and Verbal both
- Ability to handle pressure
- Time Management



## Strength

- Honesty and Integrity
- Leadership abilities
- Communication
- Analytical abilities
- Punctuality
- Flexibility and Adaptability
- Learning agility: Quick learner
- loyalty



## Languages

- English
- Hindi
- Santali
- Bengali



## Hobbies



Volunteering



Traveling



Playing Sports



Cooking



## Website



SCAN ME  
OR  
VISIT

manoharmarandi.github.io



## Publication

**M. Marandi, A. Bertia and S. Silas, "Implementing and Automating Security Scanning to a DevSecOps CI/CD Pipeline," IEEE 2023 World Conference on Communication & Computing (WCONF), RAIPUR, India, 2023.**



## Projects

### Implementing and Automating Security Scanning to a DevSecOps CI/CD Pipeline

- Integrated Snyk and StackHawk tools in CI/CD with GitHub Action, enabling automatic vulnerability scanning and fixing during the build process.
- Conducted SAST (Static Application Security Testing) and DAST (Dynamic Application Security Testing) vulnerability scanning to identify and mitigate security threats.
- Monitored scanning results using the dashboard provided by Snyk and StackHawk tools.
- Improved overall security of the application by reducing the time to detect and fix vulnerabilities.

### Security-by-Design Approach into the Software Development Lifecycle of Cloud-Based IoT Microservices

- Proposed architectural framework that seamlessly incorporates Security-by-Design into SDLC for cloud-based IoT microservices.
- Integrated security testing in CI/CD pipeline for early detection and resolution of vulnerabilities.
- Leveraged Docker and Azure Container Registry for secure microservices packaging.
- Implemented Azure IoT Hub, Microsoft Defender, and Azure Sentinel for robust device and data security.
- Demonstrated proactive security measures throughout SDLC, adapting to dynamic threat landscape.

### Advance Dynamic Application Security Testing to find defects in Web Application

- Fundamental understanding of Open Web Application Security Project (OWASP) Top 10 and vulnerabilities
- Use of DAST tools and techniques (Burp Suite tool and OWASP Zed proxy attack tool)
- Done Dynamic Testing and Static testing techniques to uncover all types of defects in insecure applications.



## Certification

- **Advance System Security design**
- **Cloud Computing Security**
- **DDoS attack and defenses**
- **Security and privacy in TOR networks**
- **Advance System Security design**  
Coursera, University of Colorado
- **Introduction to Cyber Security**  
Cisco Netacad Academy
- **Cyber Security Essential**  
Cisco Netacad Academy
- **Penetration Testing: Advanced Web Testing**  
LinkedIn Learning
- **Application Security Testing Essential Training**  
LinkedIn Learning
- **ICS CyberSecurity Threats**  
CISA, US department of Homeland Security
- **ICS CyberSecurity Vulnerabilities**  
CISA, US department of Homeland Security
- **Python Programming**  
ICT Academy, IIT Kanpur
- **NSE 1 Network Security Associate**
- **NSE 2 Network Security Associate**
- **NSE 3 Network Security Associate**  
Fortinet
- **CNSS**  
**(Certified Network Security Specialist)**  
ICSI, UK
- **CCNA**  
**Introduction to Network Routing and Switching**  
NIELIT, New Delhi