



Education

Masters of Technology (Ongoing) Cyber Security

Karunya Institute of technology
and Sciences
2022-2024

Bachelors 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
 - Snyk
 - StackHawk
 - OWASP Zap
 - MobSF
- Monitoring
 - ELK
- Infrastructure as a Code (IaC)
 - Terraform
- Cloud Service
 - GCP



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: C++, Java, Python



Summary

Cybersecurity Enthusiast with 1+ year of experience in DevOps and Security and currently pursuing Masters of Technology in Cyber Security. Possesses a strong foundation in cybersecurity practices and technologies, with inspiring leadership abilities and technical expertise. Committed to continuous improvement and expanding knowledge in the field. Dedicated to contributing to organizational progress and personal growth.



Work Experience



Ascon Softech Pvt. Ltd. India (Kolkata)

DevOps and Security Engineer

Duration - 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

Project title: **Advance Dynamic application security testing to find defects in Web Applications**

- 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

Project title: hack the box

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



Upkey

Duration - 6 weeks

- Managerial function of leadership, finance and Entrepreneurship
- Demonstrated essential technical skill through industry-based project
- Capstone project with Quantumcyte Inc.



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



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 Testing for Containerized IoT Applications in CI/CD

- Implemented security testing of containerized IoT applications in CI/CD pipeline using Snyk, Trivy, and Anchore for security scanning in github action.
- Conducted an empirical evaluation of these tools in detecting and mitigating security vulnerabilities in container images.
- Evaluated the effectiveness of implementing these security scanning tools in the CI/CD pipeline of containerized IoT applications.
- Improved overall security of containerized IoT applications by identifying and remediating security vulnerabilities.
- Provided insights and recommendations for enhancing the security of containerized IoT applications by incorporating security scanning tools in their CI/CD pipeline.

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