Manohar Marandi

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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
  - 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: 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

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