

# Chakradhara Rao Kotturu

Cybersecurity — DevOps — Software Engineering

📍 Vancouver, BC

✉ kotturuchakradharao@gmail.com

🌐 [linkedin.com/in/chakradhara-rao-kotturu](https://www.linkedin.com/in/chakradhara-rao-kotturu)

## Skills

- **Languages:** Python, Bash, C++, SQL
- **Tools:** Nmap, Wireshark, Git, Docker, Burp Suite
- **Platforms:** Ubuntu, Windows Server, CentOS
- **Cloud/DevOps:** CI/CD, Azure, AWS (basic)
- **Concepts:** Log Analysis, PKI, Vulnerability Scanning

## Education

**M.S. Cybersecurity**  
NYIT, Vancouver  
Expected Aug 2026

**B.Tech ECE**  
SVIT, Hyderabad  
Jul 2023

## Coursework

Network Security, Digital Forensics, Pen Testing, SOC Ops, Secure Coding, Cryptography

## Highlights

- Developed ML-based IDS (86% accuracy)
- Built full-stack e-commerce platform with authentication
- Implemented PKI system for secure digital signing

## Summary

Cybersecurity graduate with experience in DevSecOps, web development, cryptographic systems, and automation. Strong background in secure code, threat detection, and real-world scripting for Linux systems.

## Experience

**Freelance Developer**  
Remote

Jan–Apr 2025

- Designed microservices with secure practices; automated anomaly detection in logs using Python.
- Created CI/CD pipelines using Docker; integrated testing and audit-friendly workflows.
- Authored security documentation including incident response and deployment guides.

**Web Development Intern, Raise Digital** Aug–Sep 2022  
Hyderabad, India

- Developed and maintained web components; fixed critical vulnerabilities in internal tools.
- Helped monitor logs, apply patches, and participate in Agile releases.

## Projects

**Intrusion Detection System with ML (Mar 2025)**  
Developed an ML-based IDS using Python (Scikit-learn) to classify network threats. Achieved 86% accuracy on real packet datasets. Built a dashboard for alert visualization.

**Advanced E-commerce Web App (Feb 2024)**  
Built a secure e-commerce platform using Flask, MySQL, and Bootstrap. Features included encrypted user logins, product management, and order tracking. Implemented input validation and role-based access control.

**Cryptography with Public Key Infrastructure (June 2025)**  
Designed and implemented a PKI-based secure message exchange system. Generated key pairs, issued certificates, and verified digital signatures using OpenSSL. Documented encryption workflows and certificate management.