

# GIRIRAJ KULKARNI

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## Professional Summary

Aspiring cybersecurity professional with expertise in penetration testing, vulnerability management, and ethical hacking, along with foundational knowledge of smart contracts and blockchain technology. Seeking to leverage hands-on experience and a strong technical foundation to contribute as a penetration tester and advance into a cybersecurity analyst and consultant role. Committed to enhancing security practices and developing innovative solutions to protect organizational systems and data.

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## Projects

### Ethical Hacking Lab

- Set up an ethical hacking lab for hands-on cybersecurity training, benefiting 150+ students, increasing their practical skills in penetration testing and vulnerability exploitation.
- Tech Stack: VMware, Linux (Kali), Windows 7, Metasploit, Wireshark
- Designed a curriculum based on real-world attack scenarios, leading to a 40% increase in student enrollment in cybersecurity electives.
- Reduced hardware costs by 60% through the use of VMware for virtualization, providing attacker and vulnerable systems in a single environment.

### Private VPN Server Using Raspberry Pi

- Developed a secure VPN server on Raspberry Pi, providing encrypted internet access for 50+ users, improving privacy and security.
- Tech Stack: Raspberry Pi, OpenVPN, Linux (Raspbian), IPTables
- Achieved a 99.9% uptime and reduced latency by 20% compared to commercial VPN services.
- Integrated firewall and security protocols, preventing unauthorized access and maintaining a 100% security success rate over 3 months of testing.

### Media Player Application (CDAC Pune)

- Developed a desktop media player application using ElectronJS, deployed to deliver online training lectures to 200+ students.
- Tech Stack: ElectronJS, JavaScript, HTML, CSS
- Implemented an intuitive UI and seamless video playback, reducing training delivery issues by 25%.
- Collaborated with clients to ensure the product met their specifications, leading to successful deployment and positive feedback.

### Nmap Wrapper (Automated Network Scanning Tool)

- Developed an automated tool integrating Nmap, streamlining network scanning for vulnerabilities across up to 100+ devices in a single run, improving scan efficiency by 50%.
  - Tech Stack: Python, Nmap, Bash scripting
  - Created a user-friendly interface to enhance accessibility, reducing time spent on network reconnaissance tasks by 30%.
  - Achieved compatibility with both Linux and Windows environments, ensuring broad usability and deployment flexibility.
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## Relevant Experience and Internships

### Internship at CDAC Pune

Dec 23 - Feb 24

- Developed a desktop media player application using ElectronJS, enhancing the delivery of online training lectures to 200+ students and improving user engagement by 25%.
- Collaborated with clients to tailor the application to their needs, successfully deploying a solution that met all specifications and received positive feedback.

### Tata Cybersecurity Security Analyst Job Simulation (Forge)

July 2024

- Gained hands-on experience in Identity and Access Management (IAM) and cybersecurity best practices while collaborating with a Cybersecurity Consulting team at Tata Consultancy Services.
- Delivered comprehensive documentation and presentations, effectively communicating complex technical concepts to align security strategies with business objectives.

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## Certifications

- Certified Ethical Hacker (CEH) (in progress)
- Google Cybersecurity Professional Certificate (Coursera)
- Blockchain Basics and Solidity by Cyfrin Updraft
- Full Stack Web Development Bootcamp 2023 by Angela Yu (Udemy)

## Skills and Tools

- Programming Languages: Python, JavaScript
- Cybersecurity Tools: Metasploit, Nmap, Wireshark, Nessus
- Web Development: HTML, CSS, Node.js, ElectronJS
- Blockchain: Solidity, Smart Contracts, Blockchain Basics
- Networking: Identity and Access Management (IAM), Vulnerability Assessment
- Virtualization: VMware, Linux (Kali), Windows 7
- Project Management: Agile methodologies, Client Relations, Technical Documentation
- Soft Skills: Public Relations, Event Management, Team Collaboration, Effective Communication

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## Co-Curricular Activities

Marketing and Public Relations Manager |TESA DIT

Jul 2022 - Aug 2023

- Successfully organized and executed two major events: a Mental Health Awareness Campaign and the "Electrobuzz" hackathon, significantly enhancing community engagement and organizational visibility.

Event Management Team Member|Devkraft

2022 - 2023

- Contributed to organizing "Devtalks" with notable speakers, including Ishan Sharma, Sandeep Jain, Roshan Vadaserry, and Thapa Technical, broadening the event's impact within the tech community.

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## Education

### Bachelor of Engineering in Electronics and Telecommunications (ENTC)

DY Patil Institute of Technology (7.5 cgpa)

Expected Graduation: [June, 2025]

### Higher Secondary Certificate (HSC) with Bifocal Computer Science

SNBP Jr College Morwadi (Maharashtra State Board)

Graduated: [2021]Percentage: 88%

### Secondary School Certificate (SSC)

SNBP International School Morwadi (CBSE Board)

Graduated: [2019]Percentage: 93%