

Chris Kuriakose

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TECHNICAL SKILLS

Security Tools & Frameworks: Burp Suite, OWASP ZAP, Wireshark, Nmap, Nikto, Metasploit, MobSF, OWASP Top 10, MITRE ATT&CK, CVSS, JWT.io, Postman (API Testing), SIEM (custom-built), Log analyzers, Role-based access testing tools

Programming & Scripting: Python, Bash, JavaScript, HTML/CSS, SQL (Injection testing, secure query writing), Flask, Node.js (API and backend scripting)

Libraries & Tools: NumPy, Pandas, Scikit-learn, OpenCV, NLTK, Git, Docker

Offensive Security: Web Application Security Testing, Mobile Application Security (APK analysis), Role tampering, Session fixation, IDOR, Broken Access Control, Network protocol testing: TCP, UDP, FTP, ARQ models

AI & Blockchain Integration: Neural Networks for classification (Keras, scikit-learn), AI-based matching system for blood donation, Conceptual experience with Ethereum, smart contracts, and tokenomics

DevOps & Deployment: REST API Development & Integration, Basic CI/CD workflow knowledge

Other Tools Platforms: Kali Linux, Parrot OS, VirtualBox, Android Studio, Jira, Trello, Notion (team coordination), VS Code, Sublime, Postman

PROJECTS

SIEM-lite

Mar 2025 – Jun 2025

Lightweight Security Information and Event Management System

Python, Log Parser, Bash, Regex, Linux

- Designed and implemented a custom SIEM solution to collect, parse, and analyze system logs from multiple sources
- Developed correlation rules to detect suspicious behavior patterns like failed login attempts and unusual network activity
- Implemented alerting and basic dashboards for real-time incident monitoring
- Helped reduce log triage time by over 50% during simulated threat scenarios

Blood Bank AI Matching System

Feb 2025 – Mar 2025

AI Learning Model

Python, scikit-learn, Flask, SQLite

- Developed a machine learning model to recommend optimal donor-recipient matches based on blood type compatibility and urgency
- Achieved 80% accuracy using neural networks and classification algorithms
- Integrated model with a Flask backend and created APIs for real-time matchmaking
- Designed frontend compatibility to allow hospital staff to easily view recommendations

AAPST

Mar 2025 – Jun 2025

Advanced Mobile Application Security Toolkit (Project Extension)

MobSF, APKTool, Drozer, Burp Suite

- Independently explored advanced testing techniques for Android application security beyond standard internship scope
- Reverse engineered APK files to analyze activities, permissions, and exposed components using static and dynamic methods
- Created custom test cases for session handling, insecure storage, API fuzzing, and manifest misconfigurations
- Documented findings into a reusable testing checklist and workflow for future audits and internal use

Cluster Fertilizer Dispenser

Mar 2024 – Present

Smart Agriculture System

Arduino, Sensors, Python, AI Decision Logic

- Developed a ground-fixed cylindrical dispenser equipped with laser sensors and sprayers
- Nodes communicate to distribute fertilizer efficiently across crop clusters
- Used AI-based rules for optimized spraying based on plant proximity and density
- Presented as part of an innovation project in agri-tech and automation

WORD-GEN

Jul 2025 – Present

Custom Wordlist Generator Tool

Python, Regex, CLI Interface, Encoding Libraries

- Developing a customizable wordlist generator designed for penetration testers and CTF participants
- Allows user-defined rules for character substitution, mutations, leetspeak, and common password patterns
- Supports multiple modes: dictionary expansion, targeted name/date combos, and encoding (Base64, hex)
- Will include export features and integration with password cracking tools like Hydra and John the Ripper
- Aims to optimize brute-force attack preparation while reducing manual wordlist crafting time

EXPERIENCE

Cybersecurity Intern

ICFOSS (International Centre for Free and Open Source Software)

Mar 2025 – Jun 2025

Thiruvananthapuram, Kerala

- Performed advanced vulnerability assessments on mobile, web and Database applications, focusing on session fixation, access control flaws, and insecure API logic
- Conducted black-box and gray-box testing using OWASP ZAP, Burp Suite, MobSF, Jadx, Quark Engine, TruffleHog and various other Security Tools
- Documented and presented technical findings to developers and security teams during review cycles

Founder & Lead Mentor- Cybersecurity Club

Toc H Institute of Science and Technology

Jan 2025 – Present

Ernakulam, Kerala

- Founded and scaled the college's first student-run cybersecurity community, fostering a practical learning environment
- Mentored 30+ students on ethical hacking, vulnerability research, CTF strategy, and tool development
- Organized and hosted Various workshops, red team–blue team events, and internal security tool showcases
- Built a peer network that enabled students to contribute to open-source security tools and GitHub repos

Operations Lead

TinkerHub Toc H

Mar 2024 – Present

Ernakulam, Kerala

- Led cross-functional initiatives promoting tech awareness, hands-on learning, and community projects
- Mentored For Various Hackathons like Tink-Her-Hack and Useless Projects and helped 60+ Students Create Their First Project
- Fostered collaboration between students and mentors across Kerala's tech ecosystem

Technical Coordinator

IEEE SB CS Toc H

Mar 2023 – Apr 2024

Ernakulam, Kerala

- Coordinated technical tracks and competitions for flagship IEEE events like ROBOCON'24,etc
- Oversaw logistics and evaluation for ideathons, code sprints, and cybersecurity workshops
- Facilitated collaboration with external speakers and alumni working in security roles

Hackathon Contributor

National & State-Level Hackathons

Mar 2022 – Present

Ernakulam, Kerala

- Participated in and mentored teams during various hackathons such as SIH, Reboot Kerala Hack, and Devfolio events
- Specialized in ideating and building cybersecurity and AI-integrated tools under time constraints
- Finalist or top submissions in multiple events; known for creative problem-solving and rapid prototyping

EDUCATION

Toc H Institute of Science And Technology

B.tech in Computer Science

Ernakulam ,Kerala

Aug 2022 – Present

CERTIFICATIONS

- Google Cloud Cybersecurity Certificate
- TryHackMe Junior Tester Certificate