



## IVINE SHAJI KAKKANAT

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## SUMMARY

Passionate and driven fourth-year BTech Computer Science student from Vellore Institute Of Technology, Vellore. Hands-on experience with real-world penetration testing labs and simulations. Certified in **eJPT**, **Google Cybersecurity**, and platform - **TryHackMe**. Actively participates in cybersecurity challenges (**picoCTF**, **THM**, **HTB**) and follows industry trends via **CTFtime** and **Medium**. Seeking an internship to apply and expand technical expertise in a challenging cybersecurity environment.

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## SKILLS

### Cybersecurity & Tools

- Penetration Testing: **Metasploit**, **Burp Suite**, **Mimikatz**, **PowerShell Empire**, **Macro Pack**, **Impacket Scripts**, **Hydra**
- Web Security Testing and Analysis
- Reverse Engineering
- Experience with **TryHackMe**, **Hack The Box**, **picoCTF**
- **OWASP Top 10**

### Programming

- Languages: **C**, **C++**, **Python**, **Bash**, **Java**
- Web Technologies: **HTML**, **CSS**, **JavaScript**, **React JS**, **Docker**, **FastAPI**, **WebSockets**, **OAuth**, **JWT**

### Systems & Networks

- Operating Systems: **Linux (Ubuntu/Kali)**, **Windows**
- Strong understanding of **network protocols**, **cybersecurity principles**, **system security**

### Soft Skills

- Strong problem-solving mindset
  - Team leadership and collaboration
  - Active listener and quick learner
  - Commitment to continuous improvement
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## PROJECTS

### 1. Encrypted Messenger (Python, Cryptography, Sockets)

Terminal-based end-to-end encrypted chat app.

- Built a real-time, bidirectional messaging system using **X25519 key exchange**, **AES-GCM encryption**, and **HKDF**.
- Implemented secure identity handling, socket-based communication, and **perfect forward secrecy**.
- Added tamper detection and multi-threaded message handling for live chats.

GitHub: [github.com/IVINESHAJI/Encrypted-Messenger](https://github.com/IVINESHAJI/Encrypted-Messenger)

### 2. Cryptocurrency Matching Engine

*A Real-Time Crypto Order Matching System with WebSockets and FastAPI*

A fully functional, terminal and browser-accessible **matching engine** for cryptocurrency trading, built using modern web frameworks and data structures. Inspired by real-world exchange mechanics and regulatory concepts like **REG NMS**, this project simulates realistic order matching behavior for various order types.

GitHub : [github.com/IVINESHAJI/Cryptocurrency-Matching-Engine](https://github.com/IVINESHAJI/Cryptocurrency-Matching-Engine)

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## CERTIFICATIONS



- **eJPT - Junior Penetration Tester**, INE  
[Verify](#)
- **Google Cybersecurity Certificate**, Google  
[Verify](#)
- **Hackinifinity Certificate**, Try Hack Me  
[Verify](#)

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## PROFILES

- [LinkedIn](#)
  - [GitHub](#)
  - [TryHackMe](#)
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## EDUCATION

-  **BTech in Computer Science and Engineering** – CGPA: 8.78 (after 6 semesters)  
*Vellore Institute of Technology, Vellore*
  -  **Higher Secondary (11th & 12th)** – 94.6%  
*Chavara Public School, Pala*
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## INTERESTS

- CTFs: **picoCTF, TryHackMe, Hack The Box**
  - Reverse engineering and web app security
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## LANGUAGES

- English
- Hindi
- Malayalam