

# Hari M K

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## SUMMARY

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Computer Science engineering student with hands-on experience in building and working with secure systems. Familiar with access control, vulnerability assessment, and secure application practices through academic and freelance projects. Actively developing skills in security, vulnerability research, and security tool development.

## EXPERIENCE

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- **Creative i, Freelance Developer** Erode, TN – Jan 2026 – Present
  - **Enterprise ERP Development:** Designed and developed a Flutter-based ERP application for vendors with role-based access, inventory management, and order processing.
  - **Backend Systems & Security:** Built structured backend services with Django implementing audit logging and role-based access control for data security.
  - **Process Automation:** Automated routine business tasks and created local development setup scripts to accelerate deployment cycles.
- **Creative i, Freelance Developer** Erode, TN – Aug 2025
  - **Business Process Automation:** Developed a WhatsApp chatbot with OCR capabilities to automate customer order processing and reduce manual handling by 60%.
  - **System Performance Optimization:** Optimized backend API logic and database queries to improve response times and support concurrent user requests.
  - **Operational Monitoring:** Created an admin dashboard to track customer requests, order status, and system performance metrics in real-time.

## EDUCATION

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**Velalar College of Engineering and Technology** Erode, TN  
*Bachelor of Engineering – Computer Science* *CGPA: 7.24* *Nov 2022 – May 2026*

## PROJECTS

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- **Linux Activity Monitoring Framework — C, Node.js, Supabase, WebSockets**
  - Created a full-stack monitoring system that captures Linux input events and streams them to a React dashboard via WebSockets
  - Configured a hybrid storage model with Supabase for cloud syncing and local logging for offline redundancy
- **Behavioral Analysis Framework — Rust, QEMU/KVM, FastAPI, Ghidra MCP, AI**
  - Created a malware sandbox with VM rollback and AI-assisted reverse engineering
  - Generated behavioral reports from automated telemetry collection
- **Secure File Encryption CLI — Rust, AES-256-GCM, ChaCha20, 7zip** 📄
  - Built CLI tool with AES-256-GCM/ChaCha20 encryption, 7z compression, and secure deletion
  - Designed modular architecture with batch processing and integrity verification

## TECHNICAL SKILLS

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- **Programming & Development:** Python, Java, MySQL, Bash, Agile/Scrum
- **Systems & Infrastructure:** Linux, Virtualization (KVM, QEMU), Docker, Git, Splunk
- **Networking & Security:** Web & API Pentesting, Vulnerability Assessment, Malware Analysis
- **Emerging Tech:** Cloud Computing, Artificial Intelligence, Machine Learning

## CERTIFICATIONS

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- **NPTEL Ethical Hacking** – IIT Kharagpur (Elite + Silver, 80%)
- **AWS Educate: Machine Learning Foundations** – Amazon Web Services
- **Artificial Intelligence Certification** – AICTE & IBM