

Ashmith Maddala

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WORK EXPERIENCE

Vontier

Bengaluru, KA

Product Security Intern

Jul 2025 - Present

- Conducted vulnerability assessments and source code reviews across multiple products, improving detection accuracy by 30% and reducing false positives in CI/CD scans.
- Collaborated with engineering teams to remediate OWASP Top 10 and API security issues, strengthening overall product resilience before release.
- Performed detailed threat modeling using STRIDE and attack tree analysis to identify critical risks early in the SDLC, enabling teams to prioritize and mitigate high-impact threats before deployment.

PROJECT EXPERIENCE

CLI Packet Analyzer – Kali Linux Edition

Bengaluru, KA

Tech Stack: Python, Scapy, BPF, Wireshark, TCPDump

Oct 2025 - Oct 2025

- Built a command-line packet analyzer optimized for Kali Linux that performs live traffic capture, protocol dissection, and PCAP file analysis for network security use cases.
- Implemented multi-protocol parsing (Ethernet, ARP, IPv4, TCP, UDP, ICMP, DNS, HTTP) and BPF-based filtering, improving inspection accuracy for penetration testing workflows.
- Integrated Kali-specific interface detection and toolchain compatibility (tcpdump, wireshark-common), reducing setup friction and improving usability for security practitioners.

CivicPulse – Data-Driven Civic Insights Platform

Bengaluru, KA

Tech Stack: HTML, CSS, JavaScript, Flask

Start Date - Finish Date

- Built a web-based civic reporting platform that lets citizens upload photos and descriptions of local issues, automatically classifying them with a machine learning model trained on civic datasets.
- Implemented an end-to-end workflow for image upload, text input, and real-time categorization (roads, water, sanitation, electricity), improving classification accuracy through data preprocessing with pandas.
- Designed an interactive dashboard with category filters and visual summaries, enabling efficient monitoring of reported issues in real time.

Job Board App – Full-Stack Recruitment Platform

Start Date - Finish Date

Tech Stack: HTML, CSS, JavaScript, APIs

- Built a web application where employers can post jobs and candidates can browse or apply, managing listings dynamically through a database-driven backend.
- Designed reusable front-end components and secure form validation to ensure smooth job creation and filtering.
- Implemented CRUD operations for job management, improving system usability and demonstrating proficiency in full-stack architecture.

EDUCATION

New Horizon College of Engineering

Bangalore, KA

Bachelor of Engineering (B.E.), Computer Science & Engineering

Graduation Date: May 2026

SKILLS & INTERESTS

Domains: Threat Modeling, Vulnerability Assessment, Dependency Scanning, SBOM Generation, Secure SDLC

Tools: Burp Suite, Nessus, OWASP ZAP, Nmap, Trivy, Snyk, SonarQube, Checkmarx, Metasploit, Wireshark, Gryspe, Dependency-Track