

Nihal Awasthi

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EDUCATION

Vellore Institute of Technology, Bhopal, India
Integrated M.Tech - Computer Science Engineering With Specialization in Cyber Security

Expected 2027

SKILLS

Cybersecurity: Penetration Testing (Burp Suite, Metasploit), Network Security, NIST Framework
Programming: Python, C, Java, C++, PowerShell, Bash
Web Development: Django, Flask, REST APIs, ReactJS, HTML/CSS/JavaScript
Cloud/DevOps: AWS EC2, GitHub Actions, PostgreSQL, MySQL
Tools: Wireshark, Nmap, Git, AI tools (ChatGPT, DeepSeek, V0)

EXPERIENCE

AI Data Annotator & Model Reviewer (Freelance) Dec 2024 – Present
Outlier *Remote*

- Reviewed and fine-tuned 10+ AI/LLM projects across domains such as coding, language, education, and policy.
- Delivered high-quality human feedback on 1,200+ AI completions, contributing to model alignment and RLHF workflows.
- Logged 60+ work hours across structured tasks and prompt validation pipelines.

Part-Time Software Developer Aug 2024 - May 2025
MyResQR.life *Hybrid (Bangalore)*

- Promoted from Intern to Part-Time SDE after delivering scalable Django-based backend services on AWS EC2, maintaining 99.9% uptime during peak traffic over a 6+1 month tenure.

Full Stack Developer (Charity Work) Mar 2024 – Dec 2024
Operation Smile Foundation *Remote (Delhi)*

- Led end-to-end development of a responsive donation platform, mentoring junior devs and boosting user engagement by 60%, donations by 25%, and Lighthouse performance score to 98 with 40% faster load times.

Key Additional Roles

(12+ positions): [View detailed experience on LinkedIn](#)

PROJECTS

Phablet: Hashing & Encryption Algorithm Designed a multi-layered encryption protocol with AES-256 and RSA integration. Achieved 9ms encryption/11ms decryption times for data up to 1MB (95% faster than industry benchmarks) ([Try it here](#))

AigesX: Vulnerability Detection System (Ongoing) Automated vulnerability identification using fuzzing and symbolic execution; reduced manual analysis time by 60% with 85% accuracy.

PhantomSurf Developed a privacy-focused browser featuring an integrated proxy, real-time packet transfer monitoring, and a modern, sleek UI.

50+ Projects on GitHub: Full stack projects, web designs, Python apps, malware, and automation scripts.
[Explore all projects here.](#)

PUBLICATIONS

- “Phablet Hashing Algorithm”, Chapter 123 in *Studies in Systems, Decision and Control*, Vol. 587. *Business Resilience and Business Innovation for Sustainability*, Springer, 2024. ISBN: 978-3-031-87583-0.
- “Data Poisoning in Large Language Models”, Chapter 168 in *Studies in Systems, Decision and Control*, Vol. 587. *Business Resilience and Business Innovation for Sustainability*, Springer, 2024. ISBN: 978-3-031-87583-0.

EXTRA-CURRICULAR ACTIVITIES

- Spearheaded the Cyber Warrior Club’s technical department**, directing 3 Teams -15 members and orchestrating 8 cybersecurity workshops, enhancing member skills and knowledge of cybersecurity principles and practices.
- Served as a Judge for two 36-hour hackathons** hosted by Eureka Club and Cyber Warrior Club
- Top 0.005% globally** — Ranked #47/1M+ participants in Advent of Code 2024