

# ARUNODAY TIWARI

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## PROFESSIONAL SUMMARY

Detail-oriented Software Developer skilled in Java, Python, JavaScript, React, Node.js, and full-stack development, with hands-on experience in building scalable applications and secure systems. Strong foundation in data structures, algorithms, and cloud technologies, complemented by applied knowledge of cybersecurity practices such as threat hunting, end-point detection, and vulnerability assessment.

## PROFESSIONAL EXPERIENCE

**Security Software Developer** June 2025 – July 2025  
*Cyber Cell, Meghalaya Police Shillong, India*

- Developed a phishing-blocking browser extension (React, Tailwind, Firebase) deployed state-wide across Meghalaya.
- Built an endpoint monitoring solution using Wazuh, Filebeat, and Elasticsearch to strengthen security posture.
- Collaborated with law enforcement IT teams to integrate secure coding practices and vulnerability mitigation.

**Cybersecurity Intern** Jan 2025 – Mar 2025  
*Centre for Development of Advanced Computing (CDAC) Noida, India*

- Designed a ransomware simulator in Python (Fernet) to model encryption vulnerabilities.
- Conducted sandbox testing and code vulnerability assessments to identify weak points in software systems.
- Gained hands-on expertise in system-level programming and threat modeling for secure development.

## KEY PROJECTS

**CTF Platform** Jan 2025 – Mar 2025

- Built a full-stack CTF platform using Node.js, Express.js, Tailwind CSS, and JavaScript for cybersecurity challenges.
- Implemented authentication and secure APIs for user management.
- Successfully hosted a college-wide event with 100+ participants.

**Spam Blocking Extension** Jul 2025

- Designed an extension to detect and block phishing websites.
- Integrated Firebase-hosted threat intelligence database for continuous updates.
- Collaborated with state cyber cell and got it implemented across Meghalaya.

**Endpoint Detection & Monitoring System** Jun 2025

- Built an EDR solution integrating Wazuh, Filebeat, and Elasticsearch for endpoint log analysis.
- Created Kibana dashboards for visualizing threats and improving incident response.

**Securing NIT Meghalaya Website** Jun 2025

- Identified and reported multiple vulnerabilities in the official NIT Meghalaya website, collaborating with IT staff for remediation.
- Implemented secure coding practices and configuration changes, reducing exposure to web-based attacks.

## Certifications

- Certified Ethical Hacker (CEH v13 AI) – Aug 2025
- Palo Alto Network and Cloud Security Certification – Oct 2024
- Prompt Engineering and AI Certification – Aug 2025
- Postman API Fundamentals Student Expert – May 2024

## EDUCATION

**Bachelor of Technology** 2023 – 2027  
*Electronics & Communication Engineering NIT Meghalaya GPA: 8.32/10.0*

**Intermediate (12th Grade)** 2022  
*St. Thomas School Kanpur, India*  
**Percentage: 95%**

## TECHNICAL SKILLS

### Programming Languages

- Java, Python, JavaScript, HTML, CSS

### Frameworks & Technologies

- React, SpringBoot, Firebase, MySQL

### Cybersecurity Tools

- Wazuh, BurpSuite, Nmap, Metasploit, Snort, EDR solutions

### Core Technologies

- Data Structures & Algorithms, Operating Systems, DBMS
- Full-stack Web Development, API Development
- Vulnerability Assessment, Threat Detection, AWS, Docker

## ACHIEVEMENTS

- State-wide deployment of security extension across Meghalaya government.
- 2<sup>nd</sup> place in Capture the Flag (CTF) competition at NIT Meghalaya.
- Government cybersecurity project contributions with measurable impact.
- Successfully managed college-wide CTF event with 100+ participants.
- Strong academic performance with GPA 8.32/10.