

# 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, endpoint detection, and vulnerability assessment.

## PROFESSIONAL EXPERIENCE

### Security Software Developer

*Cyber Cell, Meghalaya Police* June 2025 – July 2025

*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

*Centre for Development of Advanced Computing (CDAC)* Jan 2025 – Mar 2025

*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.