

# Jayant Kumar

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## Internship

### Website Developer

March 2024 - May 2024

*Tulip Dsign.*

- Engineered a mobile-first website using React, delivering a responsive and user-centric interface across all devices.
- Accelerated site performance by 15% through lazy loading, code splitting, and asset optimization, enhancing overall user experience.
- Elevated search visibility by implementing structured data, SEO best practices, and clean URLs, driving higher rankings and organic traffic.
- Partnered with designers and marketers to align UX and content strategy, increasing user engagement and conversion rates.

## Projects

### DDoS Simulator

August 2024 - October 2024

- Engineered a DDoS attack simulator to replicate real-world distributed denial-of-service scenarios, enabling proactive stress testing of web systems.
- Tested and benchmarked anti-DDoS defences, resulting in a 30% boost in mitigation speed and improved overall system robustness.
- Automated traffic generation and load distribution, creating scalable simulations for evaluating infrastructure resilience under high-volume attacks.
- Live Project Link: <https://ddos-simulator.onrender.com/>

### Check5

July 2024 - August 2024

- Built an automated vulnerability scanner that identified over 95% of common web application threats, including SQL injection, XSS, and session hijacking.
- Integrated intelligent scanning modules to perform real-time security assessments, improving vulnerability detection efficiency by up to 40%.
- Designed a user-friendly interface to streamline testing workflows, enabling developers to conduct end-to-end security checks with minimal training.
- Live Project Link: <https://check5-91yx.onrender.com/>

### NTA Tool

June 2024 - July 2024

- Engineered an automated system for real-time network traffic analysis, reducing manual monitoring efforts by over 60% through intelligent anomaly detection algorithms.
- Identified and flagged security breaches with an average detection latency under 2 seconds, improving incident response time and threat visibility.
- Developed interactive data visualization dashboards using modern UI tools, enhancing traffic pattern clarity and supporting faster decision-making by network administrators.
- GitHub Repository Link: <https://github.com/jayant1796/nta>

## Certifications

### Network Traffic Analyzer (IBM Training):

July 2024

- Focused on sockets, threads, and analyzing network traffic for security threats.

### Mastering Data Structures & Algorithms (Udemy):

Nov 2023

- Strengthened understanding of data structures, algorithm design, and optimized problem-solving techniques

## Technical Skills

- Languages:** Python, C, C++, Java, JavaScript, HTML, CSS
- Technologies/Tools:** Bootstrap, MySQL, Metasploit, Burp Suite, Wireshark, Nmap, Sqlmap, John the Ripper
- Skills:** Leadership, Problem-Solving Skills, Team Player, Project Management, Adaptability

## Education

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**Lovely Professional University Punjab**

*Computer Science and Engineering — CGPA: 7.00*

*Jalandhar, Punjab*

**Since August 2022**

**Arcadian Public School**

*12th with Science — Percentage: 86.0%*

*Bajna, Mathura*

**April 2020 – March 2022**

**H.V.N Public School**

*10<sup>th</sup> — Percentage: 74.0%*

*Khair, Aligarh*

**April 2018 – March 2020**



