

Ishaan Sheth

Third-year engineering student with an increasing passion in software development and computer security. Currently learning and researching system programming, web security, and ethical hacking using online websites and hands-on projects. Having a want to develop a solid background in secure coding methods, vulnerability assessment, and network protocols. Dedicated to a lifelong of learning and keen on shaping the security issues of the future.

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Education

- **Third Year Engineering** - Computer Engineering Department, Dwarkadas J. Sanghvi College of Engineering, Mumbai.
 - **CGPA:** 9.56 (upto semester IV)
 - **Relevant Coursework:** Data Structures, Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks.
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Technical Skills

- **System Programming:** Windows Kernel Debugging, IOCTL, Native API, WDK, Assembly (x86/x64)
 - **Security Testing:** Vulnerability Assessment, Privilege Escalation, Reverse Engineering (pwn.college), XSS, SQLi, Path Traversal
 - **Tooling:** Pwntools, WinDbg, Scapy, Ida, Ghidra, apktool, Jadx, Frida, tshark, Netcat, curl, metasploit framework (all done on Linux distribution Kali)
 - **Web Security:** SOP, CORS, JavaScript Fetch API, Cookie Management
 - **Networking:** TCP/IP, ARP Scanning, Protocol Dissection, Packet Crafting
 - **Programming:** Python, Shell Scripting, Bash, SQLite, C, Java, HTML, CSS, JavaScript, x86 Assembly
 - **Quantum Computing:** Qiskit, Quantum Algorithms (Grover's, Shor's), Quantum Circuits, Quantum Teleportation, Quantum Key Distribution, IBM Quantum Experience
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Experience

- **Research Internship at Veermata Jijabai Technological Institute(VJTI Mumbai)** – Reverse Engineering (3 Months)
 - Learnt and understood the fundamentals of how reverse engineering works. Got experienced with using tools like ida-free and ghidra. Understood how windows drivers work at a lower level.
 - **Internship at Deloitte** – Risk Analyst (2 Months)
 - Analyzed vulnerabilities in software applications and created detailed reports for the client's software team.
 - **Technical Co-com Member at ACM Committee** (9 Months)
 - Collaborated on developing a pressure-activated piano.
 - Assisted in creating a reaction speed test with buttons and buzzers.
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Projects

- **Machine Learning Dog Breed Detector Model** – *Self-Initiated* (2024)
 - Developed a dog breed detector using Python and deep learning techniques.
 - Used multiple data preprocessing techniques to input the dog images into the models.
 - **Web Server Using Assembly Code** – *Self-Initiated* (2025)
 - Built a web server using x86 architecture Intel syntax.
 - Designed to receive and respond to multiple HTTP GET and POST requests.
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Research Papers

- **Quality Analysis of Borewell Water** *Under peer review*
 - We collected and analyzed borewell water samples to assess contamination levels.
 - Parameters like pH, TDS, nitrates, and bacteria were measured using sensors and lab tests.
 - Machine learning models were used to classify water quality and detect unsafe sources.
 - **QVeriSign: A No-Cloning Authentication Framework** *To be Published*
 - We designed an authentication system that cannot be cloned, using quantum-safe principles.
 - It generates unique, unforgeable keys to replace traditional digital signatures.
 - The system is resistant to quantum attacks and efficient for real-world use.
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Certifications

- **Certified JavaScript Developer** - Udemy.
 - **Certified Python Developer** - STEM International.
 - **Certified Java Developer** - DJ Sanghvi.
 - **Certified C Programmer** - Udemy.
 - **Cryptography and Hashing** - Well-versed in Python and Java (Udemy).
 - **Ethical Hacking** - Well-versed (Udemy and pwn.college).
 - **Cybersecurity** - (Udemy and pwn.college).
 - **Quantum Computing** - Brief knowledge (Udemy).
 - **AI-ML Developer** - Udemy.
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