

Surya Pratap Singh Chauhan

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EXPERIENCE

Software Development Engineer

June 2024 – Present

Nimbus Gaming

Jhansi, UP

- Built companion software for peripherals, enabling user customization and seamless integration with firmware.
- Helped develop firmware in C++ for wireless gaming mice with PAW3360 sensor, achieving stable 1000Hz polling rate, reducing driver size by 35%, and designing scalable architecture for PAW3395 sensor integration.
- Led Rust firmware development, optimizing wireless performance and reducing load time by 10-15%.

Infosec Writer

July 2023 – July 2024

Medium

Self Employed

- Authored 15+ cybersecurity articles, reaching 10,000+ readers and increasing engagement by 30% through tutorials and expert insights.

Network Engineer Intern

Feb 2023 – May 2023

Ernst & Young LLP

New Delhi

- Assisted in cybersecurity research and testing, identifying 13+ vulnerabilities using Burp Suite and Nmap, which contributed to improving client data protection by up to 20%.

PROJECTS

Chinatsu in development | C++, GLFW, OpenGL, Glad, ImGui, premake, Box2D, spdlog

2024 – Present

- Designing and implementing a game engine from scratch in C++ for Windows, focusing on custom graphics rendering, input systems, and real-time game development.
- Integrating GLFW for window management and input, OpenGL for rendering, and ImGui for custom debugging tools and development interfaces. GitHub: [brodante/Chinatsu](https://github.com/brodante/Chinatsu)

SignOutSync in beta | Python, JavaScript

2024 – Present

- Developing a Single Logout system that allows users to view and manage active logins across devices, as well as submit remote logout requests for compromised accounts and devices.
- GitHub: [brodante/SignOutSync](https://github.com/brodante/SignOutSync), qualified for HacktoberFest 2024.

KeyGuardian Developed, Maintained | Python(zlib, hashlib, fernet), C++

2023 – 2024

- Python tool for hash creation, file/folder encryption, and decryption using Fernet (AES in CBC mode with a 128-bit key), securely retrieving keys from default or specified directories for data decryption.
- Github: [brodante/KeyGuardian](https://github.com/brodante/KeyGuardian), Published Research Paper DOI: [10.55041/IJSREM34392](https://doi.org/10.55041/IJSREM34392)

SKILLS

Languages: C/C++, Python

Tools & Platforms: Visual Studio, VS Code, Burp Suite, OWASP ZAP, Nmap, sqlmap, Linux, Git, Postman

Frameworks & Libraries: Metasploit, Fernet, Cryptopp, STL, fstream, system.OS

Soft Skills: Adaptability, Curiosity, Analytical Thinking, Problem-Solving

CERTIFICATIONS

DIAT Certified Information Assurance Professional [Verify](#).

Ethical Hacker by CISCO [Verify](#).

Cyber Threat Management by CISCO [Verify](#).

IT Security Defense against the digital dark arts by Google [Verify](#).

Automate Cybersecurity Tasks with Python by Google [Verify](#).

Put It to Work: Prepare for Cybersecurity Jobs by Google [Verify](#).

Operating Systems: Overview, Administration, and Security by IBM [Verify](#).

EDUCATION

Raj Kumar Goel Institute of Technology

Ghaziabad, U.P

Bachelor of Technology in Computer Science and Engineering

Nov. 2020 – July 2024

Lucknow Public School

Lucknow, U.P.

Senior Secondary Education (Class XII)

2017 – 2019