# Shreyan Gupta

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#### EDUCATION

#### **Drexel University**

B.S. in Computer Science; Minor in Security Technology

September 2022 - June 2027

Cumulative GPA: 3.42/4.0

Relevant Coursework: Network Administration, IT Security, Intro to Computing & Security Technology, IT Security Policies, Systems & Software Architecture, Advanced Programming Tools & Techniques, Systems Programming, Data Stuctures

## WORK EXPERIENCE

## Web Development Intern

Delhi, India

Elar Industries

June 2023 - September 2023

- Developed and deployed a secure web application for a cable manufacturing unit, using input validation, output encoding, and content security policy (CSP) to prevent XSS attacks, boosting traffic by 450%
- Constructed a robust **admin panel** for employees using **Auth0** and **Google OAuth single sign-on**, ensuring correct identity and access management using **Oracle Identity Management**, maintaining **SOC 2 security standards**
- Automated the **inventory management system**x using **Oracle MySQL database**, implementing **AES-256 encryption** and **role-based access control**, reducing inventory losses by **over \$6,000 monthly**

#### Software Systems Developer

Remote

Gamesense.pub

February 2021 - August 2022

- Reworked the company's existing login system to be more secure by implementing OWASP guidelines and the NIST framework, ensuring the protection and integrity of data of over 10,000+ users
- Managed and upgraded Ubuntu-based AWS EC2 server infrastructure for over 120 users, enhancing security with AWS Shield & WAF, achieving 96.4% uptime over 12 weeks of runtime
- Optimized web application performance and security using Cloudflare CDN and SSL/TLS encryption, achieving a 40% improvement in load times and enhancing data protection for user sessions

#### CERTIFICATES & INVOLVEMENTS

- Endpoint Security Cisco Systems Inc. & Proficiency in Advanced Antimalware Protection and Application
- Security, Mitigating IP/TCP/UDP Vulnerabilities, and Developing Robust Network Security Infrastructure
- CyberSecurity Professional Certificate Google LLC. - Proficiency in Cybersecurity Fundamentals, focusing on Network Security with Incident Response & Threat Mitigation Techniques, including Foundations of Linux
- Dean's List Merit-based award signifying high-GPA academic excellence at Drexel University
- Drexel CyberDragons Active member of ethical-hacking club, exploring hands-on labs & ready-to-attack machines

#### SKILLS

Programming
Security Technology
Cloud Computing
Operating Systems
Tools & Technologies

Python, C, C++, C#, ASP.NET, Bash, SQL, JavaScript, Java, LUA
Nmap, Hashcat, Aircrack-ng, Wireshark, John The Ripper, Burp Suite, Shodan
Amazon Web Services (EC2, Shield, WAF), Microsoft Azure (VM, Function, DevOps)
Linux (Kali, Ubuntu, Debian, Mint), macOS, Windows Powershell
Git, Docker, Postman, OSINT, Wordpress-CLI, Microsoft Office 365 Suite

## SELECTED PROJECTS

## HELL.LUA (February 2021) 🖸

- Developed a LUA script with FFI in C to authenticate users using GPU IDs, enhancing gameplay security by preventing unauthorized access and reducing third-party cracking attempts by 95%
- Securely loaded scripts from a remote server, utilizing VM escape techniques to gain privileged access, achieving an average of 192 ms detection time over 34 mitigated of 36 total hacking attempts

#### Deliverrr (February 2024) 🗘

- Built a full-stack food ordering web application, incorporating JWT (JSON Web Tokens) & GraphQL APIs to allow fully-authenticated user sessions
- Implemented AES-256 data encryption in MongoDB to protect sensitive user information, integrating secure data storage and payment processing with OAuth and Stripe API, enhancing transaction safety

#### HexCrypt (February 2023) (7)

- Designed a multi-layered cryptographic algorithm integrating RSA for asymmetric encryption and custom Caesar cipher obfuscation for robust data integrity and protection
- Deployed the algorithm on **Azure Functions**, utilizing the **Python Secrets library** for secure random number generation and **Inflect** for number-to-text conversion, implementing **regular key rotation** for enhanced security