

Samkit H Shah

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Experience

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- Security Analyst & Software Developer**, (Freelance) *Apr. 2021 to present*
- Building robust software solutions for 30+ clients from different sectors like IT, Finance, Pharmaceutical and the gig economy.
 - Providing cybersecurity consultancy, enhancing company's security by 25% against application threats and vulnerabilities through DevSecOps and comprehensive vulnerability assessment saving from potential financial risks of over \$100k.
 - Developed algorithms used by financial analysts and traders that automates data extraction and sentiment analysis from websites and by parsing documents eliminating manual tasks and reduction of processing time by 40%.
- Co-Founder**, (The Breakout Hunt 📄) *Nov. 2020 to present*
- Engineered and manage native application supporting over 40k users, ensuring security and reliable performance.
 - Achieved 70% faster delivery speed of notifications by the algorithm utilizing webhooks and Google Firebase.
 - Implemented secure development lifecycle involving threat modeling, risk assessments, secure coding practices, penetration testing, continuous monitoring, regular audits and incidence response plans, reducing security vulnerabilities by 40%.
- Cyber Security Analyst**, (Mahen Technologies) *Dec. 2021 to Mar. 2023*
- Conducted Gray box testing for 15+ applications and 10+ networks using a combination of manual testing techniques and automated scans, resulting in prevention of PII data leaks, SQL injections attacks, and blocked cross-site scripting (XSS).
 - Spearheaded a team of 4 for security assessment projects utilizing tools like nessus and burpsuite for network and cloud apps.
 - Delivered 100 hours of corporate and academic lectures on the OWASP Top 10 and practical application security.
 - Conducted system audits with the compliance team on over 20 systems and networks, and formulated improvements.
- Software Developer Intern**, (Cart Geek 📄) *Dec. 2020 to May 2021*
- Conducted detailed source code reviews and addressed time complexity issues and real-world problems faced by the team.
 - Awarded 'Intern of the Year' for leading cross-functional teams, streamlining project management processes, and slashing development rework by 40% through client-centric solutions and technical acumen.
 - Enhanced speed optimization by 60% through efficient coding practices, created a scalable e-commerce site, ensured payment security using payment signature verification, and integrated multiple microservices for streamlined operations.

Education

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- New York University**, Masters in Cybersecurity *Aug. 2023 to present*
- GPA: 3.55/4.0; Member at OSIRIS Cyber Security Lab; Graduate Assistant at CSE Department
- NMIMS**, B Tech in Computer Engineering *July 2017 to May 2023*
- GPA: 3.58/4.0; Student Ambassador Award

Certifications And Awards

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- **Certified Ethical Hacker (CEH) Certification:** Gained knowledge in ethical hacking techniques and vulnerabilities.
 - **Security Researcher at BugCrowd:** For ethically reporting security bugs and received bounties/appreciations.
 - **Second Prize, Technical project:** Built an application system facilitating peer-to-peer delivery to expedite delivery times.

Technical Skills

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- Languages:** Python, JavaScript, PHP, C + +, Java, Go, HTML5, CSS3, SQL, Dart
- Frameworks:** Laravel, Codeigniter, Flutter, Vue JS, Node JS, Flask, Django, REST APIs, GraphQL, Metasploit
- Tools:** Git, MySQL, MongoDB, PostgreSQL, Firebase, Docker, Kali Linux, JIRA, Kubernetes, Nmap, Hashcat
- Platforms:** GCP, AWS, Linux, Firebase, Splunk, VMWare, Visual Studio, Virtual Box, Prompt Engineering

Projects

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- Windows Malware Testing as a Service**
- Engineered an AWS-based sandbox environment tailored for isolating and analyzing Windows malware, leveraging S3 for efficient code uploads and dedicated VMs for secure execution and thorough network traffic examination.
- Security Assessment Project**
- Performed an extensive Penetration Testing for NBN Corp, thoroughly assessing vulnerabilities in their infrastructure.
 - Identified and reported vulnerabilities by using manual web pentesting methodologies, Gtfobins and network pentesting, resulting in a 60% improvement in cybersecurity defenses for NBN Corp.

Extra Co-Curricular

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- Organized and led cultural events as a committee member of the Graduate Indian Student Association at NYU.
 - Competed in State Level Throwball Competitions and won Inter-School Throwball championships