

SAMKIT H SHAH

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WORK EXPERIENCE

Freelance Work | Software Development

April 2021 - Present

- Developing websites, software, and apps for 30+ clients, ensuring on-time delivery and client satisfaction using Laravel, Flask, Flutter and Codeigniter.
- Providing cybersecurity consultancy, increasing company's security by 40% from potential threats.
- Developed algorithms and scripts using python for automating processes and leveraging AWS cloud services.

The Breakout Hunt | Co-Founder

November 2020 - Present

- Engineered application, monitoring and enhancing organization's cyber security, driving success for a 40k+ user base.
- Designed an algorithm to automate alert sending to users, increasing notification delivery speed by 70%.
- Implemented a secure development lifecycle to bolster app security and ensure access control.

Mahen Technologies | Cyber Security Intern

December 2021 - March 2023

- Conducted Gray box testing for websites, applications and network, implementing robust security checks and audits, resulting in a 30% reduction in potential security vulnerabilities and strengthening defenses.
- Implemented Security Architecture preventing potential threats and risks and hassle-free security maintenance.
- Delivered 100 hours of lectures along with reviewing access controls, encryption practices, and backup procedures to support the compliance team in auditing systems and drafted audit reports and recommending improvements.

Cart Geek | Software Developer Intern

December 2020 – May 2021

- Played a key role in refining the CRM system by conducting detailed source code reviews and offering critical effort-cost analyses that led to a 30% reduction in operational costs to support senior management's strategic decisions.
- Achieved recognition as the 'Intern of the Year' for effective teamwork and clear client communication, decreasing development rework by 40% and achieving deadlines 20% faster while working on various software development projects.

EDUCATION

New York University

2023 – Present

- Masters in Cybersecurity; CGPA: 3.55/4; *Member at OSIRIS Cyber Security Lab; Graduate Assistant at CSE Department.*

NMIMS

2017 – 2023

- BTech in Computer Engineering; CGPA: 3.58/4; *Student Ambassador Award.*

PROJECTS

Windows Malware Testing as a Service

- Engineered an AWS-based sandbox environment for isolating and analyzing Windows malware, utilizing S3 for code uploads and dedicated VMs for secure execution and network traffic examination.
- Automated malware analysis workflow, incorporating S3 bucket monitoring for executable submissions and VMs for in-depth adversary traffic analysis, streamlining threat investigation processes.

Security Assessment Project

- Conducted an in-depth Penetration Testing project for NBN Corp, identifying and analyzing vulnerabilities in their external infrastructure, such as web servers and client endpoints.
- Produced a comprehensive report that significantly enhanced NBN Corp's cybersecurity measures, improving their defenses by approximately 40%. (Nmap, Metasploit, Burp Suite and Manual Scripting for exploitations).

CERTIFICATIONS AND AWARDS

- **Certified Ethical Hacker (CEH) Certification:** Gained knowledge in ethical hacking techniques to identify and rectify cybersecurity vulnerabilities, enhancing ability to safeguard organizations from potential threats.
- **Security Researcher Appreciation:** For ethically reporting security bugs and helping to fix it at ZnetLive.
- **Second Prize, Technical project:** Awarded 2nd prize for web development project - Build an application system facilitating peer-to-peer delivery to expedite delivery times.

TECHNICAL SKILLS

- **Languages:** C++, Python, JavaScript, Java, Go, HTML5, CSS3, SQL, PHP, Ajax, Dart.
- **Frameworks:** Vue JS, Node JS, Flask, Django, REST APIs, Flutter, Laravel, Codeigniter.
- **Tools & Platforms:** Git, GitHub, Wireshark, Nmap, Suricata, MySQL, MongoDB, DynamoDB, Firebase, Docker, JIRA, AWS, GCP, VMWare, Virtual Box, Sguil.