

Nikhil Prakash Jayaprakash Saridhakumari

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EDUCATION

- **Purdue University** West Lafayette, Indiana, US
Master of Science in Computer Science; Specialization: Cybersecurity; GPA: 3.3/4 Aug. 2023 – May. 2025
Relevant Courses: Information Security, Cryptography, Network Security, Software Security, Security Analytics, Legal Aspects, Data Communications & Networks.
- **SRM Institute of Science and Technology** Chennai, TN, India
Bachelor of Technology in Computer Science and Engineering; GPA: 9.29/10 Jul. 2019 – May. 2023

PROFESSIONAL EXPERIENCE

- **Purdue Systems Security** West Lafayette, Indiana, USA
Cybersecurity Awareness Associate for Information Assurance Oct 2024 – Present
 - Promoted cybersecurity best practices, planned awareness events, created cybersecurity content, and assisted with web development for various websites.
 - Managed KnowBe4 self-phishing campaigns, user account administration, monitored cyber trends, wrote articles, and handled support tickets for cyberaware@purdue.edu.
- **CyberTruck Challenge** Detroit, Michigan, USA
Participant in Heavy Vehicle Cybersecurity Challenge Jun 2024
 - Analyzed CAN Bus systems to detect and mitigate threats. Collaborated with experts and peers, gaining practical experience in protecting heavy vehicles from vulnerabilities.
 - Spearheaded the team and identified vulnerabilities that allowed me to take control over CAN systems and, subsequently, the vehicle.
- **Cybernaut Edu Tech LLP** Chennai, TN, India
Application Developer Intern Feb 2020 - Aug 2020
 - **Platforms Utilized:** Android Studio, Google Firebase, Figma, Visual Studio Code, Microsoft Azure.
 - Led webinars on app development using Android Studio and Java, increasing edu-tech enrollment. Enhanced full-stack development and mentorship skills through hackathons and team collaboration.

SKILLS SUMMARY

- **Programming & Scripting Languages:** C, C++, Java, Python, Bash, JavaScript, SQL, Shell Scripting.
- **Technologies and Other Skills:** Ghidra, Wireshark, Nmap, OpenSSL, Gcrypt, Binary Ninja, GDB, SavvyCAN, J1939 Tools, CANalyzer, BusMaster, PCAN-Explorer, Docker, Kubernetes, Git, Jenkins.
- **Certifications:** Ethical Hacking, Full Stack Development, and Python Programming from **MyCaptain Edu Tech**.
- **Hackathons:** Led bot function implementation at Yellow Messenger 2020; Optimized development processes and collaboration tools at Ivyhacks 2020.

PROJECTS AND PUBLICATIONS

- **Kaminsky DNS Cache Poisoning** Jan 2024 - May 2024:
 - Configured DNS servers and implemented spoofing techniques to poison DNS caches and redirect traffic to malicious sites.
 - Demonstrated the security flaws in DNS protocols and emphasized the importance of DNSSEC.
- **Padding Oracle Attack Simulation** Aug 2023 - Dec 2023:
 - Designed and executed Python scripts to exploit vulnerabilities in CBC-mode encryption, adjusting encrypted data and analyzing server responses.
 - Successfully decrypted ciphertext, showcasing the risks associated with insecure padding in encryption.
- **Drowsiness Sensing System of Driver based on Behavioral Characteristics to Prevent Road Accidents Using Real-Time Optimized Computer Vision** Jan 2023 - May 2023:
 - Designed a camera-based system to detect driver drowsiness in trucks, addressing a key cause of road accidents.
 - The prototype effectively identified fatigue, earning recognition for its potential in accident prevention.
 - **Link:** restpublisher.com/articlejame/10-46632-jame-2-2-4