

DEVANG JAIN

devangjain239@gmail.com / djain7@jh.edu | +1 (667) 464-1793 | devangjain.com
linkedin.com/in/djrobin17 | github.com/djrobin17 | djrobin17.medium.com/

EDUCATION

- **Master of Science in Security Informatics, Johns Hopkins University, Baltimore, MD, USA** 2022 - Present
- **B.Tech in Computer Science and Engineering, Indian Institute of Technology Goa, India** 2018 - 2022
GPA: 3.64
Relevant Coursework: Introduction to Information Security, Computer Networks, Computer Architecture, Operating Systems, Data Structures and Algorithms

WORK EXPERIENCE

- **Safe Security, Intern (New Delhi, India)** June - Nov 2021
 - Performed research on 230+ security controls to yield new insights and theories, analyzed data and developed pseudo codes that advance the state-of-the-art Outside In Security Assessment.
 - Involved in investigating, analyzing, and learning from security researchers, attackers, and actual incidents to develop durable detection strategies across the kill chain to enhance the product.
- **Winkl, Security Intern (Bangalore, India)** Jan - May 2021
 - Responsible for conducting penetration testing and vulnerability assessments to evaluate the security of products and web applications. Additionally, implemented Safe by Design concept in UX of the flagship product.
 - Collaborated with the development team to resolve the identified security issues.
- **Hack for Change, Research Intern (Hyderabad, India)** Sept - Dec 2020
 - Worked on the Government of India's Information Security Policy: Review and Analysis Research Paper that spanned details on all the various national cybersecurity strategies and initiatives.
 - Performed thorough research and review on the current state, challenges, case studies, recent cyberattacks, tech-stack, and more forefront topics of CyberSecurity in the Indian context.

PROJECTS

- **SolSec Labs** Jan - May 2022
 - Built a web-based application that provides interactive training labs for Solidity developers, to learn about Smart Contracts security vulnerabilities through hands-on experience.
 - Developed and deployed the project using React/Node JS and Netlify/Heroku. (<https://solseclabs.netlify.app/>)
- **EasyPenTest Toolbox** Nov 2021 - Jan 2022
 - Developed an open source, click-to-run, automated penetration testing framework with a collection of 15 defensive and offensive tools for scanning numerous web application vulnerabilities or misconfigurations.
 - Bundled the tools scripted in Python/Shell/Golang/NodeJS in a Docker image for ease of distribution and use.
- **Visualization of Network Security Data** July - Oct 2021
 - Used t-Distributed Stochastic Neighbor Embedding (t-SNE) technique on Network Security Datasets to visualize and highlight the trends and outliers.
 - Worked under the guidance of Prof. Yang Cai from Carnegie Mellon University, USA.
- **LSB Image Steganography Tool** Aug 2020
 - Implemented Least-Significant Bit Steganography technique to hide messages inside an image of type RGB and RGBA and format PNG and Bitmap.
 - Utilized prevalent Pillow and NumPy Libraries in Python to write the encoding and decoding functions.

TECHNICAL SKILLS

- **Programming:** Python, C/C++, Javascript, Golang
- **Networking:** TCP/IP, HTTP(S), DNS, Firewalls, IDS/IPS, VPN, OSI Model, Cryptography, Steganography
- **Security:** Kali Linux, WebAppSec, VAPT, OWASP Top 10, CTI, SRS, OSINT, MITRE ATT&CK
- **Tools:** Wireshark, Nmap, Burp Suite, Metasploit
- **Web/Cloud:** HTML, CSS, React, Node, MongoDB, Git, Solidity, Docker, Azure, AWS, DigitalOcean
- **Certifications:** CompTIA Security+ ce, Google IT Support Specialization, Certified Network Security Specialist
- **Productivity:** Google Suite, MS Office, iWork, JIRA, Confluence, Slack, Zoom, Adobe Creative Suite

CTF EXPERIENCE

- Winner of HackQuest 2020 Solo Jeopardy-style CTF, GirlScript Foundation.
- Ranked 29th out of a total of 823 teams with a perfect score in Brixel CTF 2020 (Winter Edition).
- Contributed to the development of a challenge in picoCTF 2022 with LT 'syreal' Jones of CMU.
- Led the organizing team of Pandora's Box CTF 2021 as part of the official tech fest of IIT Goa.

ACHIEVEMENTS

- Awarded Gold Medal for Best Outgoing Student (Overall) - Class of 2022 from IIT Goa.
- Awarded 4th Prize in NCB's Darkathon' 22 in India's National Conference on Drug Trafficking & National Security.
- Awarded Certificate of Appreciation for Poster Presentation in ACM India Winter School on CyberSecurity 2020.

PUBLICATIONS

- Devang Jain and Sharad Sinha, "SolSec Labs: Virtual Labs for Learning Smart Contracts Security", IEEE Potentials (Accepted, Sep 2022).

EXTRACURRICULAR ACTIVITIES

- Technical writer of a Medium Blog on cybersecurity and ethical hacking-related topics.
- Founded IIT Goa's InfoSec Club with other members and participated actively in CTFs and RVDPs. Additionally, served as General Secretary of Academic Affairs, Film and Photography Club Head, Student Design Team Head and Class Representative during my term at IIT Goa.
- Volunteered for Tokyo for India (tokyoforindia.org) - a Covid-19 Fundraising Initiative for Marginalized Communities across India. I contributed as the website developer and helped in raising over a total of \$40,000.