Kannan Giridharan

I-31, 2nd Phase, TVS Nagar, Hosur 635-109 | kriskannan353@gmail.com | 9790490731 |

OBJECTIVE

To secure a challenging position in a reputable organization to expand my learnings, knowledge, and skills

EDUCATION

B. Tech Computer Science & Engineering

Karunya Institute of Technology and Science (KITS)

CGPA - 7.8/10

Jul 2019

12th grade, Sri Vijay Vidyalaya

95%

Apr 2015

10th grade, Sishya School

CGPA - 8.6/10

Apr 2013

RESEARCH INTERESTS - Cyber Security & Penetration Testing, Networking & Virtualization, Hardware & Firmware Testing **COURSEWORK TAKEN** - Computer Networks, Information Security, Cryptography & Network Security, IoT Security

FREELANCE WORK EXPERIENCE

Security Researcher, Hackerone

Jun 2019 till date

- Identifying bugs across web apps from organizations, such as stripe, Ola, Uber, Facebook, Twitter, etc.
- Applying web app pentesting techniques such as recon, enumerate, and exploit using factors such as XSS, XXE, SQLi and reporting bugs on a web app

INTERNSHIPS

Information Security Trainee, TVS Motor Company Ltd. Phishing Simulation using Email Link

May 2018 - Jun 2018

- Created website using PHP, HTML, CSS & JavaScript; enabled credential-access to ~700 employees in IT Department & retrieved employee information (phone number, system number & email address) through phishing site
- Created awareness of communication networking among employees via cybersecurity campaign; performed internal network reconnaissance and tested website for vulnerabilities

RESEARCH EXPERIENCE

UNDERGRADUATE PROIECT

Project Trainee, Indian Space Research Organization (ISRO)

CCSDS Simulator for Nano mission Satellite

Dec 2018 - Jun 2019

- Learnt satellite framework & communication using CCSDS concepts undertaken by International Organization for Space Networking
- Created simulator tool using Python and advanced libraries such as schedule and socket with in depth communication & cryptographic libraries
- Tested simulator in 2 systems to exact need of processing satellite communication & telemetry; processed telemetry, tele-command, payload data on simulator to obtain data for future missions

COURSE PROJECTS

Baserve: SSH Server using Paramiko with any OS Compatibility

May 2018

- Connected an SSH server in network & developed a Python script to enable SSH server in any operating system
- Tested the software in a network for the execution of SSH server in host or victim system

Sym-crypt Feb 2018 - Mar 2018

• Studied principles of Cryptography; coded the encryption using Python & developed an application to demonstrate its functions; recorded encryption result for any given input and decrypted it

Pwnetwork Jun 2018

- Developed necessary tools for network penetration testing; coded Network tools, packet analysis, proxy tools using Python & networking libraries
- Tested the software & yielded result of sniffing & spoofing of network traffic

INDEPENDENT PROJECTS

Hacking-bot Aug 2019

 Created a hacking & pentesting bot with python, Database, Iot Sim & Raspberry Pi to execute malicious and network testing remotely through Email and SMS

Linux Rootkit Aug 2019

Developed a Linux rootkit in Linux environment to make a covert channel & gain access of victim system

Nd00m3r Jun 2019

• Created a pentesting WIFI router using tools such as binwalk and python to make a rouge access point that can capture the handshake and take over the Wi-Fi network

W1fey Jul 2019

• Created a Wi-Fi automating tool in shell & Python script for hacking & reconnaissance; learnt bash, Python and Wi-Fi tools like Nmap, TShark, etc.

Executed a Wi-Fi script to reduce the use of human interaction with a system by attacking Wi-Fi network

IoTak Jul 2019

Created a custom IoT device firmware for hacking using beagle board ARM, Linux kernel & rootkits

• Developed a custom Linux OS to be installed in beagle bone board and IOT network; hacked & enabled device to install without any identification of IoT firewall

PRESENTATIONS: Presented a paper on "Modular Logistic Function for Rijndale Encryption Key Transportation" at International Conference on Emerging Trends and Innovations in Engineering and Technological Research, Kochi, Jul 2018

TECHNICAL SKILLS

Operating Systems: Linux, Kali, Microsoft, macOS, Ubuntu

Languages: Python, JavaScript, HTML 5, CSS, Shell, PHP, React, Node.

Database and Client/Server Technologies: MySQL, SQLite.

Software Tools: LibreOffice, Eagle CAD SOFT, Fusion 360, Arduino IDE, Visual Studio Code.

Networking: VirtualBox, VMware, GNS3

Web Applications: Electron, Node.js, React, mongoDB,

Hardware: Arduino, Raspberry Pi, 3D Printer.

CERTIFICATION

Cryptography, Cybrary, Dec 2017

- Web Application Penetration Testing Cybrary, Aug 2017
- Python for Pen tester Cybrary, Jun 2017
- Social Engineering and manipulation, Cybrary, May 2017
- Post Exploitation Hacking Cybrary, May 2017
- Advanced Penetration Testing, Cybrary, Feb 2017

HACKATHONS

- Organized Capture The Flag & taught basic web app hacking to 20 hackers, Sep 2019
- Participated in hackerone_ctf organized by HackerOne, Jun 2019
- Participated in Hack The Box organized by HackTheBox.eu Nov 2017

AWARDS AND EXTRA-CURRICULAR ACTIVITIES

- Participated in Megaplay organized by KITS; created props for the play (Nov 2018) & was responsible for stage management (Nov 2017)
- Member, Organizing Committee, Karunya Evangeline Memorial Tournament: Organized meal arrangements for 1000 participants, Oct 2017
- Received Certification of Participation in a Marathon conducted by KITS, Feb 2016
- Received the T-SUDA Award for Excellence for scoring high percentile in 12th grade with a grant of INR 5000, Jul 2015

VOLUNTEER EXPERIENCE

- Volunteer, Environmental Awareness, KITS: Helped in distributing food packages at a nearby village to ~ 50 people, Feb 2017
- Volunteer, Youth Red Cross Club, KITS: Organized awareness drives & created posters on blood donation, road safety.
 Aug 2016 Nov 2016
- Volunteer, National Service Scheme (NSS): Participated in cleanliness drives, taught 20 underprivileged students of Alandurai Govt. School, Jun 2015 Jul 2016

LANGUAGES: English, Tamil (Read/Write/Speak)