PRANAV ANANT JOSHI

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SUMMARY

- **EC-Council Certified Ethical Hacker (CEH) and Certified Security Analyst (ECSA)**.
- Bachelor's in information technology engineering, currently pursuing Master's in cyber security from National College of Ireland.
- Competent professional with overall experience of **1.8 years in IT experience as Junior Software (Security) Developer** by developing in python using secure coding techniques and performing Manual Code Review and Automated Code Review using tools.
- Hands on experience on Penetration Testing tools like Burpsuite, NMAP, Metasploit, MSFVenom, Nessus, Wireshark, SonarQube, SonarLint and several others.
- Knowledge of OWASP Top 10 vulnerabilities and penetration testing.
- Familiar with protocols like LAN/WAN, HTTP, TCP/IP.
- Sound Programming skills in Python, Java, PHP, HTML, CSS, C++ and researching skills utilized in several academic and non-academic (freelancing) projects like Secure Web application, Penetration Testing, Malware Analysis and din freelancing projects.
- Good knowledge of Bash and Shell scripting.
- Certified Python, Mobile App (Android) and Web Developer.

EDUCATION

1. **Master of Science:** Cyber Security (2020-Present) National College of Ireland – Dublin, Ireland.
   Modules: Network Security & Penetration Testing, Security Fundamentals, Secure Programming for Web, IT Law & Ethics, Cloud security, Secure Programming for Application Development, Cryptography, Malware Analysis.
   First Semester Project (Secure Web Application Programming):
   - Developed a PHP application using HTML, CSS and Bootstrap.
   - Conducted Penetration Testing to identify and patch OWASP Top-10 vulnerabilities.

   Tools/Technologies Used: Nmap/Zenmap, Metasploit, Burp Suite, Wireshark, MSFVenom, PHP, MySQL, HTML, CSS, Bootstrap.
   Second Semester Project (Cloud security):
   - Developed and hosted PHP website on AWS Cloud.
   - Implemented the secure-cloud configuration in free-tier from AWS such as CloudTrail, AWS Inspector, AWS Guard Duty, Cloud Watch, Certificate Manager, VPC, S3 bucket, Security Groups, IAM with MFA. Also applied Endpoint security such as WAF with logging and metrics with Kinesis Firehose Delivery Stream.

2. **Bachelor's in Engineering:** Information Technology (2013-2018) Pune University, India.
   Modules: Information & Cyber Security, Software Modelling Design, Machine Learning, Distributed System, Advance Database, Mobile computing, IoT, Operating System, Web Engineering and Technology, Soft computing, Data structures.

   Fourth Year Project:
   - Real-time Detection of Non-helmet Riders using Convolutional Neural Network.
   - Created a Virtual Environment using Anaconda. The data used in training process was captured from college campus camera and busy road, model was retrained using Supervised Learning. To handle a video sequence of webcam, a pipeline was designed using a thread which helped in reducing the latency that occurred due to low configuration of device, it was forwarded to the main process of neural network model.

   Tools & Technologies: Python, Anaconda, OpenCV and TensorFlow.

TECHNICAL SKILLS

Operating Systems: Windows, Linux (Kali, Ubuntu), Android.

Languages: C++, JAVA, HTML, XML, Python, CSS, JavaScript, PHP, Flutter (Basics), MATLAB(Basics).
Database: Academic and Project Knowledge on MySQL, MongoDB, Cassandra, DynamoDB, HDFS, Firebase, SQLite.
AWS Cloud: Academic and Project Knowledge on CloudTrail, AWS GuardDuty, Inspector, IAM, MFA, Security Groups, AWS WAF, S3 Bucket, RDS, Route 53.
Tools, Frameworks & Softwares: Android Studio, Atom, POSTMAN, JIRA, Adobe Muse, Bootstrap Studio 4, Wordpress, CISCO Packet Tracer, NMAP, Aircrack-NG, ZenMap, Burp Suite, InSpy, Accunetix, Wireshark, Nessus, Metasploit, Git, Selenium Webdriver, Appium, PuTTY.

PROFESSIONAL EXPERIENCE

Name of Company: Sternleicht Software Solutions Private Limited. (6 December 2018 to 31 August 2020)
Title: Junior Software Developer
Duties:

- Developed secured Web Services in Python for Electronic Medical Record (EMR) a web-based product.
- Tested different Web Services using POSTMAN in secured environment ensuring Security policies like HIPAA Compliance for Patients Medical data in transit. Worked on specific functionalities such as Patient take-in, Patient Scheduling for EMR product.
- Resolving Ticketed issues raised on JIRA by creating new branches using GIT and pushing it on remote repository for code review.
- Also, worked on product's Web user Interface**.**
- Involved and actively participated in scrum meetings conducted and provided reports and presentation for the assigned task for every Scrum cycle.

PERSONAL/FREELANCING PROJECTS

1. **Title:** Indian agent – A Handy Digital assistant; (2017)
   Link: **https://github.com/pranavj2684/IndianAgent**
   Details: Aim of providing a digital assistance. This Android App provides functionality of Downloading, Applying and Checking Status of Aadhar Card, Pan Card and Passport and additional functionality of Electricity Bill payment. Used web view.

2. **Title:** Company Portfolio Website.   **Company:** Halo Holidays (Aug-Oct 2017)
   Link:http://www.haloholidays.in
   Details: Designed a Single Landing page for a company as a Freelancer. This project was developed in Adobe Muse.

3. **Title:** Image Tampering Detection and Localization using Error Level Analysis. (Jan-July 2017)
   Link: https://github.com/pranavj2684/imagetamperingdetection
   Details:

- Designed a Proof of Concept (POC) in Image Forensics.
- Developed in MATLAB.
- Using Error level Analysis Technique and filters such as lowpass filter recreated morphological image using 'bothat' and 'tophat' by which image tampering was detected and localised.

CO-CURRICULAR ACTIVITIES

- B.E (Final Year) Project presentation given in **IEEE sponsored ICECA 2018,** held at RVS Technical Campus, Coimbatore, Tamil Nadu, India   (Mar 31, 2018)
- ITSA (Information Technology Student Association) Web and App Head   (2017 - 2018)
- Organized and Conducted Technical Interviews for Web and App Team.
    Guided juniors to design Website and Android app of ITSA for Technical and Non-technical events. Organized a Gaming Competition in College and managed Gaming servers and latencies.