

## OBJECTIVE

---

Aspiring Secured Developer. Looking for a challenging career in the domain of Computer Science with a specialization in Software Development which demands the best of my professional ability in terms of technical and analytical skills thus helping me in broadening my knowledge and learning more. Inclined to combine my previous experience of Software Development with Cybersecurity.

## COMPUTER SKILLS

---

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

**Languages:** C++, JAVA, HTML, XML, Python, CSS, JavaScript, PHP, Flutter (Basics), MATLAB(Basics).

**Database:** MySQL, MongoDB, Cassandra, DynamoDB, Hive, Hadoop, Firebase, SQLite.

**AWS Cloud:** 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/INTERNSHIP EXPERIENCE

---

**Name of Company:** Sternleicht Software Solutions Private Limited. (6 December 2018 to 31 August 2020)

**Title:** 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.

## 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. This website included Home, about us, Services, Contact Us and Reach Us. Contact Us form used SMTP Server of Halo holidays domain. Technologies used were HTML5, CSS3, Bootstrap 4.

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.
- 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.

## EDUCATION

- 
1. **Master of Science:** Cyber Security (2020-Present) National College of Ireland – Dublin, Ireland.  
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):**

- Developed a PHP application using HTML, CSS and Bootstrap.
- Conducted Penetration Testing to identify and patch OWASP Top-10 vulnerabilities.

**Tools Used:** Nmap/Zenmap, Metasploit, Burp Suite, Wireshark, MSFVenom, PHP, 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.

**First Semester Result: 2:1 GPA**

2. **Bachelor's in Engineering:** Information Technology (2013-2018) Pune University, India.  
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

**Fourth Year Result: 2:2 GPA**

## CO-CURRICULAR ACTIVITIES

- 
- Successfully Completed Diploma in Android App Development and Diploma in Web Development from SPARK Institute, Pune. (2016 - 2017)
  - Successfully Completed CCNA Training and Python Scripting Certification from SYSAP Technologies, Pune. (2018)
  - Successfully completed EC-COUNCIL Certified Ethical Hacker (CEH) with 90.40% (Mar 15, 2019)
  - Successfully completed EC-COUNCIL Certified Security Analyst (ECSA) with 84% (Jan 16, 2020)
  - 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.