

## AKASH THAKUR

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### Summary

A computer geek focused at learning new technologies in Computer and Network Security. Creative mind with ideas of solving challenges and performing jobs in automated fashion.

### Skill Set

- Infosec: **Web & Network Pentesting** | **OWASP** | **Wireless Security** | **Malware Analysis** | **Cryptanalysis** | **OSINT** | **SIEM** | **Threat hunting**
- Linux System Administration | Server Hardening | Network Security & Troubleshooting at all layers
- Content Security - **Ironport ESA Cx80,Cx90,Cx95** | **SMA – Mx80,Mx90** | **Firewalls and VPN**
- Programming Languages: **C/C++, Python, Bash, Matlab, Octave, R**
- Cloud Skills: **Amazon AWS** | **Digital Ocean** | **Heroku** | **Docker** | **Vsphere 7**
- Scripting languages: **Bash** | **Python** | **Powershell** | **Networks and System Automation with Python**
- Open Source Technologies: Apache[**Nutch,Lucene,Solr,Hadoop,Ambari**], **Elastic[Elastic Search,Logstash, Kibana, Beats]**, **Cacti, Nagios, Monnit**.
- Web Crawler & Scraper Development | Full Stack Web Developer
- Web Projects involve: **HTML** | **CSS** | **JavaScript** | **Angular JS** | **PHP** | **Python** | **MySQL** | **MongoDb** | **Elastic Search** | **Bootstrap** | **WordPress** | **Django** | **Flask**
- Data analytics and Visualization with SIEM Tools - **ELK** and **Splunk**
- Embedded System Programming: **Arduino** & **Raspberry Pie**

### Trainings & Certifications

- 4- VMware – **VCP** [Data Center Virtualization]
- 4- Cisco – **CICD** [Collaboration], **CCNA** [Routing & Switching], **CCNA Security IINS**
- 4- Cisco Security Ninja Green and White Belt
- 4- **SPLUNK – Splunk Core Certified User**
- 4- Red Hat – **RHCSA** | **RHCE**
- 4- Machine Learning and Full Stack Web Development

### Accomplishment

- > Speaker @Cisco Seccon 2020 – **OSINT Ninja with Python**
- > Recognized for Conducting Innovation [**Innovate Everywhere Award**] in Cisco consecutively for 2019 and 2020.
- > Automation Champion for Cisco CMS | Successfully Automated 1000+ man hours of NOC jobs.
- > Reported bugs related to web applications at Zomato | Tata Docomo | Facebook
- > Trainer for online training course Ethical Hacking Certified Professional – Simplilearn Platform **2017**
- > Volunteer at **NULL-CON** Annual Security Conference **2016 2017 2020**
- > Speaker at WHW – Wireless Hacking Workshop @SRM University, Null Community Chennai Chapter **2016**
- > Speaker at Reboot – Security Event **2016**, CYware - A Cyber Awareness event SRM University **2016**
- > Web Developer and System Administrator at **SRM Search Engine 2015 - 16**
- > Cyber Security Domain Head in Club Gen-Y SRM University Chennai **2015**
- > Event – Coordinator for Milan – National Cultural Fest SRM Univ. **2015**
- > Event - Coordinator and Committee Head in Aaruush - National Tech-fest SRM Univ **2015**
- > Project Sector443 @ <http://www.sector443.xyz> - **2014**
- > Blogger @ <http://cybertechbuddy.blogspot.com/> - **2014**

## Experience

- **Professional Experience:**
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- Network Security Specialist – **@IBM SOS** [Jan 2021 - Present]
  - Troubleshooting Network and Security Issues for IBM Dev Teams
  - Administer Core firewalls, Loadbalancers, VPN Gateways, IDS & IPS appliance
  - Building automation solutions for the Squad and BU
  - N/w ops and Infra monitoring
- Content Security – Email Security **@Cisco TAC Content Security** [Mar 2021 – Dec 2021]
  - Troubleshooting Content Security issues for Cisco Customers. [ESA & CES Solutions]
  - Provide Tier-4 level consultation and troubleshooting assistance.
  - Work with Cisco Talos for Email Security efficacy and updating with latest email threats.
  - Log analysis, Packet Captures, Configuration Validation, RCA and Product Expertise.
  - Email Flow and header analysis | Identify and report security engine corruptions & bugs
  - Building Virtual Labs for Issue reproduction.
  - Writing scripts for automating log parsing, issue detection and configuration issues.
  - Working with Team Leads on critical bugs for the products.
  - Creating knowledge articles for troubleshooting newly discovered issues and bugs.
  - Building signatures for Automated issues detection broker pipelines.
  - Building Automation Tools for Engineers and delivering training on Cyber Security Tools and Practices.
- Cloud Operations and Networks Engineer Tier 2 **@CMS Cisco Systems [Jan 2018 – FEB 2021]**
  - Troubleshooting, Break and Fix for Cisco Collaboration Products – CUCM | CUC | IMP & Jabber | CME | ICM | CVP | HDS | SIP Proxy | L2 and L3 devices
  - Log analysis and detecting issues with call flows
  - Ticketing and event monitoring | Building Python scripts for device health checkups
  - Virtualized Data Center Monitoring with VMware Vsphere
  - Building Automation Tools ,scripts, Splunk Dashboards for Managed NOC.
  - Automation Champion Advocate for APAC region.
  - Proactive and Reactive Monitoring for Cisco Managed Infrastructure
  - Working on Platform advancements and Management.
- **Internships and Part-Time Experience:**
  - Ethical Hacking Trainer **@ Infysec, Simplilearn, Level Infinite [<1yr]**
  - Speaker at various workshops and training programs for **Cyber Security and Ethical Hacking [<1yr]**
  - Full Stack Developer Intern – **Aircense India (IIM Calcutta) [1 month]**
  - Research Intern (**Ontological Search Engine Development- DRDO**) – **NIT Kurukshetra (MCA Department) [2 months]**
  - Web Developer & System Administrator - **SRM Search Engine Project (Project under NIXI Govt. of India)**
  - Security Engineer Intern: **World Bank (Chennai)**

## Projects

- **ESA & WSA & SMA Parser Tool:** Developed Cisco TAC tool to provide virtual GUI interface for an ESA|WSA|SMA device using appliance configs, reducing overall troubleshooting time.
- **Network Health Checks** – Monitoring and Dashboard Tools for Enterprise Collaboration Networks.
- **Staff Management and Rostering Tool** – Developed Splunk integrated Dashboards for staff reporting.
- **Zhishi** – Knowledge Sharing Tool
- **TAM Tool** – Ticketing and Monitoring Tools for NOC
- **Contact Center Health Check Suite** – App built on Cisco Coral Platform for Contact Center Deployments that performs health checks and alerting

- **Nodal Analysis of Tor nodes on Cloud:** Using the power of data analytics with hadoop on network dumps of Tor nodes can help in Cyber Forensics and Deanonymisation.
- **System Behaviour Analysis on ELK Stack :** Centralized log streaming of windows lab environment and study of system behaviour under different malware sources using the logs to prepare charts and do visualization.
- **Web Automation with Selenium :** Feedback Form Automation for 150+ fields in 10 seconds.
- **Chatu-chatbot :** Chat Bot written in python that can talk on various topics like computers , food , emotion , drugs , geography , food , sex etc. Works on AIML
- **SRM Search Engine :** Worked as Sys admin and Web Developer for the project. Worked on system monitoring and

cluster management. Development of crawlers and scrappers.

- **Sector443** : Sector443 is an Internet and web security site that provides rich content related to Information & Computer Security.

## Education

Graduated with **9.0 CGPA** from SRM University Kattankulathur under B-tech in Information Technology- 2018

Passed 12<sup>th</sup> Grade with **90%** in PCM and **95%** in Computer Science - 2013

Passed 10<sup>th</sup> Grade with **98%** - 2012

High School Diploma in Science G.N.M.P.S - Paonta Sahib Himachal Pradesh, India

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GITHUB: <https://github.com/zerocool443>

ONLINE\_PORTFOLIO: <https://akashthakur.me>

BLOG: <http://www.sector443.xyz>

Youtube: <http://www.youtube.com/akashthakur1337>