

## MOHAMAD FAKHRI BIN ZULKIFLI

Email: [mohdfakhrizulkifli@gmail.com](mailto:mohdfakhrizulkifli@gmail.com)

Github: <https://github.com/fakhrizulkifli>

Linkedin: <https://my.linkedin.com/in/fakhrizulkifli>

Proficient in electronics and interested in computer and network security engineering application in industry. An effective team player looking for challenging opportunity and responsibility which can improve my technical abilities.

### Education

Qualification : Bachelor's degree  
Field of Study : Computer Engineering  
Major : Computer System  
Institute/University : Universiti Teknikal Malaysia, Melaka  
Current CGPA : -  
Graduation Date : In 2020

Qualification : Diploma  
Field of Study : Electronic Engineering  
Major : Embedded System  
Institute/University : MARA Japan Industrial Institute, Kajang  
CGPA : 3.07  
Graduation Date : Dec 2015

### Experience

**Company Name** : NetbyteSEC  
**Position Title** : Security Engineer  
**Position Level** : Engineer  
**Specialization** : Cyber Threat and Research  
**Industry** : IT Computer Security  
**Duration** : Jan 2016 – present  
**Responsibilities** :

- Develop and deploy mainly security related software for analytics and intelligence such as honeypot/honeynet, scanner, sandbox, and etc.
- Involved in whitebox and blackbox application/network/web penetration testing.
- Develop and maintain the back-end infrastructure for the monitoring, reporting, and analysis tools.
- Configure and install firewalls and intrusion detection systems.
- Create new ways to solve existing production security issues.
- Perform vulnerability testing, risk analyses and security assessments.
- Develop automation scripts to handle and track incidents.
- Investigate intrusion incidents, conduct forensic investigations and mount incident responses.
- Evaluate new technologies and processes that enhance security capabilities.

**Company Name** : **CyberSecurity Malaysia**  
**Position Title** : Research Intern  
**Position Level** : Intern  
**Specialization** : Cyber Threat and Research  
**Industry** : IT Computer Security  
**Duration** : July 2015 – November 2015  
**Responsibilities** :

- Developed a Proof-of-Concept project (Modsecurity Snort Preprocessor).
- Involved in the development of OIC-CERT Cyber Drill 2015 exercises.
- Involved in the development of LebahNet honeypot projects.
- Developed a lightweight Apache module (mod\_sql) integrated with SQLi tokenizer parser analyzer.

**Company Name** : **Iman Amal Ventures Sdn Bhd**  
**Position Title** : Technology Consultant  
**Position Level** : Consultant  
**Specialization** : Electronics – Hardware/Software Integration  
**Industry** : Electrical and Electronics  
**Duration** : July 2013 – Jun 2014  
**Responsibilities** :

- Technologist.
- Responsible for advanced hardware and software integration.
- Technical updates researcher.

**Company Name** : **Komuniti ICT**  
**Position Title** : PHP MySQL Developer  
**Position Level** : Back-end Developer  
**Specialization** : IT/Computer – Web Application Development  
**Industry** : Computer / Information Technology (Software)  
**Duration** : Jan 2011 – March 2011  
**Responsibilities** :

- Develop PHP MySQL based web application systems.
- Responsible for web applications system development and database management.

### Additional Info

### PROFESSIONAL DEVELOPMENT

AleJnd Alliance (2015 - Present)  
Member of the local Malaysian Capture-the-Flag team.

Project MakerBridge MyTeam (2013 - 2015)  
The objective of this project is to encourage and provide a hands-on workshop on using open source hardware such as Arduino and other type of latest hardware.

### SKILLS

Programming Languages:  
C, C++, Assembly, Python, PHP

Web Programming Languages:

Javascript, XML, JSON, NodeJS

Databases:

MySQL, PostgreSQL, SQLite, MongoDB

Web Servers:

Apache, Nginx

CMS:

Joomla, Wordpress, Opencart

## RESEARCH

- Defeating PHP-GD or ImageMagick library using code injection for GIF and JPEG file format.
- IPv6 network scanning using packet advertisement and solicitation.
- Porting Modsecurity detection engine into Snort's Dynamic Preprocessor.
- CVE-2018-12453 - Redis 5.0 Denial of Service
- CVE-2018-12326 - Redis-cli Buffer Overflow
- CVE-2018-12327 - ntpq and ntpdc 4.2.8p11 Local Buffer Overflow
- CVE-2018-12617 - QEMU Guest Agent Denial of Service
- CVE-2018-13458 - Nagios Core qh\_core Denial of Service
- CVE-2018-13457 - Nagios Core qh\_echo Denial of Service
- CVE-2018-13441 - Nagios Core qh\_help Denial of Service
- CVE-2018-16517 - NASM 2-14rc5 Denial of Service

## OTHERS

- i-Hack 2018 Competition (CTF Overlord)
- KICTM 2018 iCTFF Professional 1<sup>st</sup> place (alejnd)
- Hack@10 2018 2<sup>nd</sup> place (AleJnd)
- KPMG Cyber Security Challenge 2017 Cross Country 1<sup>st</sup> place (EternalBlue)
- KPMG Cyber Security Challenge 2017 Malaysia 2<sup>nd</sup> place (EternalBlue)
- Wargames.my Capture-the-Flag 2017 3<sup>rd</sup> place (AleJnd)
- KICTM 2017 iCTFF 1<sup>st</sup> place (alejnd.A)
- Borneo Cyber Security Challenge 2017 (CTF Overlord)
- Wargames.my Capture-the-Flag 2016 1<sup>st</sup> place (aleuto)
- i-Hack 2016 Competition 2<sup>nd</sup> place (Cyber Forensic)
- KPMG Cyber Security Challenge 2015 2<sup>nd</sup> place (aleuto)
- The National Big App Challenge 2.0 (Cyberjaya City Hacks)
- Angelhack Kuala Lumpur Hackathon 2015 finalist (Gasunomi)
- Wargames.my Capture-the-Flag 2015 2<sup>nd</sup> place (aleuto)