

# Iason Somarakis

Greece



jason\_somarakis@protonmail.com



[linkedin.com/in/iason-somarakis-493474100](https://www.linkedin.com/in/iason-somarakis-493474100)

## Summary

Iason Somarakis works as a senior security engineer, focusing on research, development and application of security solutions. With experience in penetration testing methodologies and tools, virtualization and containerization means and machine learning algorithms for enhanced proactive and reactive security mechanisms. Furthermore, he has an up to date view of the technological landscape and a diverse toolkit of programming languages, networking, and infrastructure as a code frameworks.

Iason's research interests involve different types of security assessments, specifically emulation technologies for cyber range training and offensive technologies for penetration testing and threat emulation.

Last but not least, his personal interests include capture the flag activities, privacy related topics, cryptocurrencies, and reading novels.

## Experience



### Senior Security Engineer

Sphynx Technology Solutions

Aug 2021 - Present (5 months +)

Primarily working on:

Developing the emulation mechanisms and training content for SPHYNX's Cyber Range capabilities.

Developing and integrating open source tools for SPHYNX's Penetration Testing capabilities.

Additionally leading:

- A cyber range training platform for medical organisations and systems security (AERAS)
- Resilient Transport Infrastructure to Extreme Events (RESIST)



### Security Engineer

Sphynx Technology Solutions

Jan 2020 - Aug 2021 (1 year 8 months)

Primarily working on:

- Developing the emulation mechanisms and training content for SPHYNX's Cyber Range capabilities.
- Developing and integrating open source tools for SPHYNX's Penetration Testing capabilities.

Leading SPHYNX's efforts on the following HORIZON2020 Projects:

- HOLOBALANCE: HOLOgrams for personalised virtual coaching and motivation in an ageing population with BALANCE disorders
- RESIST: Resilient Transport Infrastructure to Extreme Events

In addition working on the following HORIZON2020 Projects:

- THREAT ARREST: Cyber Security Threats and Threat Actors Training - Assurance Driven, Multi Layer, End-to-End Simulation and Training



### Software Engineer

## Sphynx Technology Solutions

Apr 2018 - Jan 2020 (1 year 10 months)

Primarily working on:

- Developing and integrating open source tools for SPHYNX's Penetration Testing capabilities.

Leading SPHYNX's efforts on the following HORIZON2020 Projects:

- RESIST: Resilient Transport Infrastructure to Extreme Event
- HOLOBALANCE: HOLOGrams for personalised virtual coaching and motivation in an ageing population with BALANCE disorders

Additionally working on the following HORIZON2020 Projects:

- SEMIOTICS: Smart End-To-End Massive IoT Interoperability Connectivity and Security
- THREAT ARREST: Cyber Security Threats and Threat Actors Training - Assurance Driven, Multi Layer, End-to-End Simulation and Training

## IT Support Technician

Curvature

Apr 2016 - Dec 2016 (9 months)

Job Summary:

This position assists local and remote staff with technical support of desktop computers, laptops, applications, and related technology. Support includes specification, installation, and testing of computer systems and peripherals within established standards and guidelines. Activities require interaction with application software and operating systems to diagnose and resolve problems. The position utilizes one-on-one consultancy to end users. The position's responsibilities require independent analyses, communication and problem solving. Work is performed with little supervision and requires initiative and judgment.

Primary Roles and Responsibilities:

- \* Assist staff with the installation, configuration, and ongoing usability of desktop computers, peripheral equipment and software within established standards and guidelines.
- \* Assist in the design and deployment of a standard OS and Software images
- \* Works with vendor support contacts to resolve technical problems with desktop computing equipment and software.
- \* Manages Help Desk request queue (Ticketing System, Knowledgebase, and Asset Management).
- \* Trains and orients staff on use of hardware and software.
- \* Performs upgrades on systems to ensure longevity.
- \* Assists in maintaining Voice related services
- \* Uphold all aspects of Curvature's Information Security Management systems.

## IT Support /Network administrator Trainee

Curvature

Oct 2015 - Apr 2016 (7 months)

Network Administration and Desktop Support

## Technician's assistant / IT support

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Jun 2013 - 2015 (2 years 7 months)

## Education



### **City, University of London**

PhD, Computer and Information Systems Security/Information Assurance

2019 - 2023

Asset and Threat Emulation for Cybersecurity Training at School of Mathematics, Computer Sciences & Engineering



### **Technological Educational Institute of Crete**

Computer Software Engineering

2010 - 2018

Worked on several projects mainly on Python, JAVA , C++, Matlab.

## Licenses & Certifications



**EU Scholarship - Android Development for Beginners - Udacity**



**Neural Networks and Deep Learning - Coursera**

AX7EC2SQX9KD



**The Ultimate Ethical Hacking Course 2017 - Udemy**

UC-XRNM4HIJ



**IDS/IPS - Cybrary**

SC-c61f1a18c3-a3b75



**Incident Handling Training Course at NIS 2018 - ENISA-FORTH**



**Penetration Testing and Ethical Hacking - Cybrary**

C-c61f1a18c3-a2f5b1



**Python for Security Professionals - Cybrary**

C-c61f1a18c3-a9ae436



**Entry Level Training of Cyber-MAR project - CyberMAR**



**Offensive Pentesting Learning Path - TryHackMe**

THM-T8YUMV0S6S

## Skills

Software Development • Penetration Testing • Virtualization • Containerization • Research • Vagrant (Software) • Ansible • Docker Products • VirtualBox • Python (Programming Language)