Thanasis **Petsas**

R&D Software Engineer · M.Sc. in Computer Science · University of Crete

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Summary

R&D Software Engineer primarily focused on Mobile Security and Privacy. Having 6+ years' background in Mobile Security mainly on the Android platform, with experience in areas spanning app analysis, malware evasion, mobile user tracking, as well as the design and implementation of defense schemes and systems capable of protecting user's privacy on those environments. Always interested in working on new challenging tasks and devising new techniques and methods to tackle problems, as well as passionate about learning new technologies and tools.

Skills

Programming	C/C++ · Python · Java · Bash · SQL
Tools	IDA Pro · Android JNI/NDK · Android ADB · Mitmproxy
DevOps	Amazon AWS · Google Cloud Platform · Terraform · Jenkins · CircleCI · Airbrake · Git

Experience

Symantec (A division of Broadcom Software)   *San Francisco, CA*

R&D Software Engineer   *Oct. 2018 - Now*

- Developed a framework for faking Android and iOS sensors for enhancing our dynamic analysis engines
- Updated our dynamic analysis hooking engines to be compatible with Android (9.0) Pie
- Transitioned Appthority's dynamic analysis engines and SEP Mobile's VPN servers into Broadcom's infrastructure
- Implemented a malicious hotspot detection feature on iOS SEP Mobile app
- Developed unit tests for increasing code coverage of iOS SEP Mobile app

Appthority   *San Francisco, CA*

R&D Software Engineer   *Oct 2015 - Oct. 2018*

- Implemented dynamic features for detecting specific behaviors of Android applications
- Updated our dynamic analysis hooking engines to be compatible with Android (8.0) Oreo

Software Engineer Intern   *San Francisco, CA*

- Developed smart techniques for exercising multiple execution paths during dynamic analysis of Android apps   *Oct. 2015 - Dec. 2015*

ICS – FORTH   *Heraklion, Crete, Greece*

Postgraduate Fellow   *Nov. 2012 - Sep. 2015*

- Developed a model for app popularity in Android application marketplaces
- Implented emulation evasion techniques on Android
- Conducted energy consumption analysis of Android Anti-Virus software
- Designed an anti-tracking mechanism for Android that preserves users privacy during browsing

Honors & Awards

2017	**Best Paper Honorable Mention,** 26th International World Wide Web Conference (WWW '17)	*Perth, Australia*
2012	**Gold Prize,** Malware-analysis competition "IWSEC Cup 2012" (IWSEC '12)	*Fukuoka, Japan*

Education

University of Crete   *Heraklion, Crete, Greece*

M.Sc. in Computer Science – GPA: 9.0 out of 10.0   *Oct. 2009 – Nov. 2012*

University of Crete   *Heraklion, Crete, Greece*

B.Sc. in Computer Science – GPA: 7.56 out of 10.0   *Sept. 2004 – Jul. 2009*

Selected Publications

- Elias Papadopoulos, Michalis Diamantaris, Panagiotis Papadopoulos, Thanasis Petsas, Sotiris Ioannidis, and Evangelos Markatos. **The Long-Standing Privacy Debate: Mobile Websites Vs Mobile Apps**. In *WWW '17*, Perth, Western Australia, 2017. *(Best Paper Honorable Mention)*.
- Iasonas Polakis, Michalis Diamantaris, Thanasis Petsas, Federico Maggi, and Sotiris Ioannidis. **Powerslave: Analyzing the Energy Consumption of Mobile Antivirus Software**. In *DIMVA '15*, Milano, Italy, 2015.
- Thanasis Petsas, Giannis Voyatzis, Elias Athanasopoulos, Michalis Polychronakis, and Sotiris Ioannidis. **Rage Against the Virtual Machine: Hindering Dynamic Analysis of Android Malware**. In *EuroSec '14*, Amsterdam, The Netherlands, 2014.
- Thanasis Petsas, Antonis Papadogiannakis, Michalis Polychronakis, Evangelos P. Markatos, and Thomas Karagiannis. **Rise of the Planet of the Apps: A Systematic Study of the Mobile App Ecosystem**. In *IMC '13*, Barcelona, Spain, 2013.