

# ir. Dario Incalza

SENIOR MOBILE SECURITY PROFESSIONAL · PUBLIC SPEAKER

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*"If I have seen further than others, it is by standing upon the shoulders of giants."*

## Education

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### KU Leuven

Leuven, Belgium

MASTER OF ENGINEERING (MENG), COMPUTER SCIENCE, CUM LAUDE

2013-2016

- Graduated cum laude within the specialisation: Development of Secure Software. Strong focus on secure software engineering and applied cryptography. In my master thesis I performed research in the field of mobile device fingerprinting. Researched and implemented a next-generation mobile device identification technique on the Android mobile platform. For my work I received Summa Cum Laude honors. During my academic activities I was part of the student union board where I was responsible for maintaining the IT infrastructure for the union and our 2000+ engineering students.

### KU Leuven

Leuven, Belgium

BACHELOR OF APPLIED SCIENCES (B.A. Sc.), COMPUTER SCIENCE AND ELECTRICAL ENGINEERING

2009-2014

- Majored in computer science and in addition pursued a minor in electrical engineering. During my academic activities I was part of the student union board where I was responsible for maintaining the IT infrastructure for the union and our 2000+ engineering students.

## Skills

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**Programming** Python, Java, Android, Swift,  $\LaTeX$

**Web** PHP, JavaScript, Python with Django, HTML5

**Security** Mobile, Web, Infrastructure, Pentesting, Applied Cryptography, Security Engineering

**Languages** English, Dutch, French, Italian

## Experience

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### Ernst & Young Financial Services Organisation (FSO)

Brussels, Belgium

SENIOR IT SECURITY CONSULTANT

June. 2017 - Present

- Working as part of a dedicated security team which offers security services to financial services and institutions at EMEA level. I am part of the pentesting team where I coach and manage junior team members. I execute, coordinate and follow up on pentesting and ethical hacking exercises.
- Penetration testing of mobile and web applications
- Reviewing security sensitive architectures
- Red teaming and ethical hacking exercises
- Help in developing a security strategy for application and infrastructure security

### ZIONSECURITY

Rotselaar, Belgium

MOBILE SECURITY EXPERT

Jan. 2017 - June 2017

- Perform security assessments of mobile applications on architectural and implementation level. Technical coaching of juniors on mobile security and evangelising mobile security to the global community.

### GuardSquare

Leuven, Belgium

PRESALES AND SECURITY ENGINEER

Oct. 2015 - Jan. 2017

- Joined the company as a student in start-up phase while still pursuing my masters degree. Performed my master thesis in cooperation with the company.
- Joined the company full-time in July 2016. Responsibilities consisted of connecting and discussing security technology and product positioning at the executive, business and technical levels. Research and development around new mobile security and hacking technologies.

### Leaders in Security (LSEC)

Heverlee, Leuven

APPLICATION SECURITY ENGINEERING ANALYST

Oct. 2014 - Oct. 2015

- I joined the company as a student. Main responsibilities: analyse and research possibilities for companies to move from a traditional IT infrastructure (on premise) to an infrastructure based on SaaS/laaS/PaaS solutions. Specifically solving use cases with an eye on bolstering and enforcing the security posture of the company.

## Imec

STUDENT PYTHON DEVELOPER

*Heverlee, Leuven*

*Jul. 2011 - Sep. 2014*

- Developing scientific measuring software for the manufacturing of organic voltaic solar chips in Python. The software takes care of the low-level interface with measuring units over USB and provides the scientist with detailed graphs and measuring information about the organic voltaic solar chip that is being tested. It automates different measuring procedures and delivers actionable graph results. I worked during my holidays and free-time as a work student.

## intelliCard AG

SECURITY ENGINEER INTERN

*Rapperswil, Switzerland*

*Jun. 2014, Aug. 2014*

- Penetration testing and looking for information leak in an Android library designed for mobile banking applications. Updating a fork of the BouncyCastle library for Android. During my internship I developed a deep understanding of public key cryptography and PKIs, including experience with hardware security modules (HSMs).

## Extracurricular Activity

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### VTK (Vlaams Technische Kring)

BOARD MEMBER

*Leuven, Belgium*

*2013 - 2015*

- We managed servers and developed an opensource CMS targeted for student unions. We had over 2000 students that we needed to provide IT services for. Some of the technologies used are : PHP / Zend2 / Doctrine / LDAP / OwnCloud / Zabbix / Jenkins

## Presentation

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### DroidCon Poland

ATTACKING ANDROID APPLICATIONS

*Krakow, Poland*

*2017*

- In this talk we aim at showing how easy it is to reverse engineer an Android application. We show how to perform static analysis on an application. Secondly, we illustrate how applications are attacked dynamically in order to investigate or alter the program flow of the application. Attendees walk away with tools and information to perform basic pentesting techniques on their own applications.

### 360|AnDev

ATTACKING ANDROID APPLICATIONS

*Denver, CO, U.S.*

*2017*

- In this talk we aim at showing how easy it is to reverse engineer an Android application. We show how to perform static analysis on an application. Secondly, we illustrate how applications are attacked dynamically in order to investigate or alter the program flow of the application. Attendees walk away with tools and information to perform basic pentesting techniques on their own applications.

### CodeMobile

ATTACKING ANDROID APPLICATIONS

*Chester, UK*

*2017*

- In this talk we aim at showing how easy it is to reverse engineer an Android application. We show how to perform static analysis on an application. Secondly, we illustrate how applications are attacked dynamically in order to investigate or alter the program flow of the application. Attendees walk away with tools and information to perform basic pentesting techniques on their own applications.

### AndroidMakers

ATTACKING ANDROID APPLICATIONS

*Paris, France*

*2017*

- In this talk we aim at showing how easy it is to reverse engineer an Android application. We show how to perform static analysis on an application. Secondly, we illustrate how applications are attacked dynamically in order to investigate or alter the program flow of the application. Attendees walk away with tools and information to perform basic pentesting techniques on their own applications.

### Mobile Operating Systems Conference (RoMobOS)

ATTACKING ANDROID APPLICATIONS

*Cluj-Napoca, Romania*

*2017*

- In this talk we aim at showing how easy it is to reverse engineer an Android application. We show how to perform static analysis on an application. Secondly, we illustrate how applications are attacked dynamically in order to investigate or alter the program flow of the application. Attendees walk away with tools and information to perform basic pentesting techniques on their own applications.

### SecAppDev

PRACTICAL ANDROID SECURITY

*Leuven, Belgium*

*2017*

- In this talk we focused on providing a solid background on the security fundamentals that are part of the Android mobile platform. Subsequently, we covered various secure coding practices that mitigate common attack vectors on Android mobile applications.

### OWASP BeNeLux Days

SECURING ANDROID APPLICATIONS

*Leuven, Belgium*

*2016*

- In this talk we focused on providing a solid background on the security fundamentals that are part of the Android mobile platform. Subsequently, we covered various secure coding practices that mitigate common attack vectors on Android mobile applications.

## AndroidSummit

*MCLean, VA, U.S.*

ANDROID APPLICATION SECURITY, THE RIGHT WAY

2016

- In this talk the attendee will discover the typical attack surfaces of an Android application. We cover the importance of code protection, implementing secure coding practices, strong crypto implementations, executing in a secure environment and hardening network communications. Attendees will walk away with best practices and common pitfalls to create secure applications.

## DroidCon London

*London, UK*

ANDROID APPLICATION SECURITY, THE RIGHT WAY

2016

- In this talk the attendee will discover the typical attack surfaces of an Android application. We cover the importance of code protection, implementing secure coding practices, strong crypto implementations, executing in a secure environment and hardening network communications. Attendees will walk away with best practices and common pitfalls to create secure applications.

## Mobile Tech Conference

*Krakow, Poland*

MOBILE APPLICATION SECURITY, IS IT WORTH THE RISK?

2016

- In this talk I covered how increasingly popular the mobile platform is becoming for companies and enterprises. We covered how mobile security risk should be approached and which methodologies could help in lowering the overall risk.

## The Big Android BBQ Europe

*Amsterdam, Netherlands*

REVERSE ENGINEERING ANDROID APPLICATIONS: TOOLS AND COUNTERMEASURES

2015

- In this talk I presented several reverse engineering methodologies and secure coding practices that can be deployed to raise the bar for reverse engineers.

## DroidCon Greece

*Thessaloniki, Greece*

REVERSE ENGINEERING IN ANDROID

2015

- In this talk I presented several reverse engineering methodologies and secure coding practices that can be deployed to raise the bar for reverse engineers.

## XDA:DEVCON

*Manchester, UK*

ANDROID SECURITY OVERVIEW

2014

- Presentation on the internal mechanisms that contribute to the overall security architecture on the Android mobile platform.