

# Jan Seredynski

## Mobile Security Engineer

Looking for a challenging mobile security engineer role to utilize my low-level security skills, 3 years of experience as mobile developer and solid academic background in cybersecurity. Eager to work on application hardening and collaborate with open-source and bug bounty community. Recently focused on Runtime Application Self Protection mechanisms.

### EXPERIENCE

#### KPMG | Penetration Tester

February 2019 – July 2019 | Amsterdam, The Netherlands

- Conducted penetration tests on Web and Mobile applications, and infrastructure tests including Red Teamings,
- Performed code reviews of iOS and Android applications

#### Synopsys | Software Security Intern

June 2018 – August 2018 | London, United Kingdom

- Developed a framework based on Frida to bypass protections as anti-jailbreak, anti-debug, certificate pinning and secure storage,
- Performed reverse engineering with IDA, radare2 and Hopper,
- Analysed IoT devices with fuzzing and debugging techniques

#### DataArt | iOS Developer

July 2015 – February 2018 | Wroclaw, Poland

- Developed a foreign exchange and international payment application with state-of-the-art security measures including facial recognition, liveness detection and document validation; boosted the performance and cross-platform usability by combining Swift with Objective-C++,
- Controlled full development lifecycle and distribution to AppStore

### PROJECTS AND ACCOMPLISHMENTS

- Working on a master's degree project about the analysis of Runtime Application Self Protection mechanisms for iOS and evaluating the state of security of the current mobile industry based on Apple AppStore,
- Reproduced a side-channel attack on Android with Glitch Rawhammer technique by using a native Android application and also a JavaScript website,
- Awarded bug bounties from flightradar24.com, olx.pl and finnair.com,
- Worked with Ryanair on implementing Alexa voice assistance for the ticket reservation system on mobile and web platforms,
- Wrote a bachelor's thesis about "Using C++ for cross-platform mobile development",
- Developed x86-64 kernel from scratch to explore how operating systems work under the hood and implemented mitigations for recent ground-breaking meltdowns in security domain.

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🔄 [github.com/serek8](https://github.com/serek8)

🌐 [seredynski.com](http://seredynski.com)

### SKILLS

#### Security

Frida · IDA Pro · r2 · Hopper · Control-Flow Integrity · Taint analysis · Kernel Programming · Fuzzing · x86 · ARM · MIPS · Burp Suite · Wireshark · Malware analysis

#### Mobile

iOS · Swift · Objective-C++ · basic Android · Java

#### Programming Languages

C/C++ · Python · JavaScript · Assembly

### EDUCATION

#### MSc Computer System Security

February 2018 – February 2020  
University of Amsterdam  
Amsterdam, The Netherlands

#### Study abroad / exchange

July 2016 – October 2016  
Queensland University of Technology  
Brisbane, Australia

#### BSc Computer Science

September 2014 – February 2018  
Wroclaw University of Technology  
Wroclaw, Poland

### PROFILE

#### Languages:

Native Polish  
Fluent English  
Communicative German

#### Certificates:

Certificate from Cisco CCNA