Andrea Mandolo

Senior DevOps Engineer

+39 349 4322 551
andrea.mandolo@gmail.com

Monselice (PD), Italy, IT

Passionate about Cloud infrastructure design and management.
Committed to automating everything that makes the developer's life easier.
Always searching for the best, simplest and most reproducible solutions
at the minimal human effort and with the correct robustness and security level.

Experience

Security Researcher   Apr 2017 - Present

Bitdefender · Romania, Iași

· Enriched windows emulation techniques and built extensive generic detections based on the metadata extracted from the emulation process as well as detections for well known malicious families such as Emotet • Experience with C/C++, build systems such a make, cmake, ninja, fast/scalable/reliable code. Data processing, matching algorithms at a large scale such as fast string matching to large databases
· Created self-sufficient systems for automatic/manual detections on newly discovered malicious files • Python, Go, Docker, SQL/NoSQL databases, metric/log collection, site reliability, fast technology onboarding, efficient big data
· Extended parsing/decompiling/detecting/visualizing techniques for executable and non-executable formats as VB6, C# IL, SFX • Fault tolerant and safe code, fast execution in limited environments, undocumented, obfuscated formats research

Maintainer   May 2021 - Present

AppCUI

· Open source maintainer of a crossplatform multifunctional GUI Library
· OSX/Unix frontend ports with SDL2 and ncurses • CMake builds • Github Workflows for Win/OSX/Unix • Valgrind tests • Compliance with the latest C/C++ standards

Skills

Databases
SQL
Postgres
MongoDB
InfluxDB

Reverse Engineering
Binary analysis
Format reversing

Education

Bachelor, Computer Science
Alexandru Ioan Cuza University

Languages

Italian · Native speaker
English · Fluent speaker

Links

andrea.mandolo.net
linkedin.com/in/andrea-mandolo