

Emanuele Iannone

Personal

Birth:
1st September 1996
Salerno (Italy)

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Languages

Italian (Native)
English (B2)

Programming

Java ♥
C, Python
HTML, CSS
Javascript, JQuery
Angular, Ionic
Cordova, Capacitor
MySQL, Neo4J
Servlet, JSP
Spring Boot
Android
L^AT_EX

Education

- 2018–2020 **M.Sc. Degree** in Computer Science University of Salerno
Software Engineering curriculum
Catch Me if You Can: Toward Automatic Exploit Generation of Known API Vulnerabilities
Advisor: Fabio Palomba
- 2015–2018 **B.Sc. Degree** in Computer Science University of Salerno
110/110 Magna Cum Laude
Automated Refactoring of Energy-Related Code Smells of Android Applications: a Plugin for Android Studio
Advisor: Andrea De Lucia

Projects

- Sep 2019– **SIEGE** University of Salerno
Automatic Exploit Generation for Java applications that rely on vulnerable OSS libraries/frameworks.
M.Sc. Degree thesis subject.
- Apr 2018– **aDoctor** University of Salerno
Android-specific Energy Smell Detector and Automatic Refactorer
B.Sc. Degree thesis subject.
- Feb 2020 **Smart Cart** University of Salerno
Angular+Ionic App for grocery with articles recommendations.
Participant of Salerno App Challenge 2020.
- Jan 2020 **Amigo** University of Salerno
Spring Boot website.
Software Project Management and Software Engineering joint project.

Publications

- [TR2] **Toward Automatic Exploit Generation of Known API Vulnerabilities** ICSE 2021
E. Iannone, D. Di Nucci, A. Sabetta, A. De Lucia, F. Palomba. Toward Automatic Exploit Generation of Known API Vulnerabilities.
To be submitted at International Conference on Software Engineering (ICSE 2021), Madrid, Spain, 2021 (NIER track)
- [TR1] **The Secret Life of Software Vulnerabilities: An Empirical Study** JSS
E. Iannone, R. Guadagni, F. Ferrucci, F. Palomba. The Secret Life of Software Vulnerabilities: An Empirical Study.
To be submitted at Elsevier's Journal of Systems and Software
- [C1] **Refactoring Android-specific Energy Smells: A Plugin for Android Studio** ICPC 2020
E. Iannone, F. Pecorelli, D. Di Nucci, F. Palomba, A. De Lucia. Refactoring Android-specific Energy Smells: A Plugin for Android Studio.
In Proceedings of the 28th IEEE/ACM International Conference on Program Comprehension (ICPC 2020), Seoul, South Korea, 2020.

Talks and Participations

July 2020	Presenter @ ICPC 2020 Presenter of [C1] Refactoring Android-specific Energy Smells: A Plugin for Android Studio @ Quality session	Online
June 2019	Attendee @ 14th ISSSE Attendee at 14th International Summer School on Software Engineering	University of Salerno

Teaching assistance

Spr. 2020	Web Software Technologies Teaching assistant for B.Sc. students. Prof. R. Francese	University of Salerno
Fall 2019	Software Engineering Teaching assistant for B.Sc. students. Prof. F. Ferrucci	University of Salerno
Fall 2018	Software Engineering Teaching assistant for B.Sc. students. Prof. F. Ferrucci	University of Salerno
Fall 2018	Software Engineering Teaching assistant for B.Sc. students. Prof. A. De Lucia	University of Salerno
Fall 2018	Software Engineering Teaching assistant for B.Sc. students. Prof. C. Gravino	University of Salerno

Research Interests

Software Engineering

Both my theses subjects are in the Software Engineering field.

Software Testing

M.Sc. thesis subject (variant of automatic test case generation).

Search-Based Software Engineering

M.Sc. thesis subject (design and implementation of a genetic algorithms).

Software Vulnerabilities

M.Sc. thesis subject (automatic exploit generation of known OSS vulnerabilities).

Software Quality

B.Sc. thesis subject (code smells detection and automatic refactoring).

Software Maintenance and Evolution

Interested in developing maintenance tools and techniques for developers.

M.Sc. Degree - Exams

Jun 2020	Software Dependability 30/30L	9 ECTS
Jun 2020	Secure Programming 30/30L	6 ECTS
Jun 2020	Software Metrics and Quality 30/30L	6 ECTS
Feb 2020	Enterprise Mobile Application Development 30/30L	6 ECTS
Jan 2020	Software Project Management 30/30L	9 ECTS
Sep 2019	Data Science and Machine Learning 28/30	9 ECTS
Jul 2019	Quantum Computation 30/30L	6 ECTS
Jul 2019	Concurrent, Parallel and Cloud Programming 28/30	9 ECTS
Jun 2019	Databases II 30/30	9 ECTS
Feb 2019	Software Engineering, Management and Evolution 30/30L	9 ECTS
Jan 2019	Compilers 30/30L	6 ECTS
Jan 2019	Internet of Things 30/30	9 ECTS
	Weighted Average 29.613/30	