Emanuele **Iannone**

Personal

Birth:
1st September 1996
Salerno (Italy)

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Contacts

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emaiannone

Languages

Italian (Native)
English (B2)

Programming

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

Education

2018–2020   **M.Sc. Degree** in Computer Science   University of Salerno
Software Engineering curriculum
Advisors: Fabio Palomba, Andrea De Lucia

2015–2018   **B.Sc. Degree** in Computer Science   University of Salerno
Advisor: Andrea De Lucia
110/110 magna cum laude

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

[C2]   **Toward Automatic Exploit Generation of Known API Vulnerabilities**   To be submitted
E. Iannone, D. Di Nucci, A. Sabetta, A. De Lucia, F. Palomba. Toward Automatic Exploit Generation of Known API Vulnerabilities.

[J1]   **The Secret Life of Software Vulnerabilities: An Empirical Study**   To be submitted
F. Palomba, **E. Iannone**, F. Ferrucci. The Secret Life of Software Vulnerabilities: An Empirical Study.

[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.

Teaching assistance

Spr. 2020   **Web Software Technologies**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. R. Francese

Fall 2019   **Software Engineering**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. F. Ferrucci

Fall 2018   **Software Engineering**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. F. Ferrucci

Fall 2018   **Software Engineering**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. A. De Lucia

Fall 2018   **Software Engineering**   University of Salerno
Teaching assistant for B.Sc. students.
Prof. C. Gravino

Talks and Participations

July 2020   **Presenter @ ICPC 2020**   Online
Presenter of [T1] Refactoring Android-specific Energy Smells: A Plugin for Android Studio at Quality session

June 2019   **Attendee @ 14th ISSSE**   University of Salerno
Attendee at 14th International Summer School on Software Engineering

M.Sc. Degree - Exams

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

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 maintainance tools and techniques for developers.