Davide Spadini

Software Engineer

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Programming

Personal Skills

About me

I am an Italian Software Engineer with a strong background in software development and testing. Currently, I am pursuing **a Ph.D. in Software Engineering at Delft University of Technology (TU Delft), The Netherlands**. Furthermore, my Ph.D. is joint together with a company, SIG (Software Improvement Group), where I work as a researcher.

I study Computer Science and Software Engineering since I was 14: I have a High school leaving qualification in Computer Science, Bachelor in Computer Science, Master in Software Engineering and (hopefully :)) a Ph.D. in Software Engineering. I love SE!

I **actively work** on Open-Source projects: I am the author of **PyDriller**, a Python framework for Git. I am very proud of this project: it has been downloaded 6,000 times per month since its release, and many universities/schools teach this tool in their MSR course! Furthermore, PyDriller is used in some companies like SIG and Mozilla.

Experience

2016 - →	**PhD Researcher**	Software Improvement Group
	Researcher on test code quality and maintenance, mining software repositories and code review.	
2014 - 2015	**Websites Administrator**	University of Trento
	Design and maintenance of all the university's websites	
2013 - 2013	**Computer Science Teacher**	Scuola Easy
	Computer Science teacher for a private company. I mainly taught Windows Office, Java and Social Networks.	
2011 - 2013	**Web Developer**	ZeroSeiPlanet
	Website creator and administrator.	

OSS Projects

2017 - →	**PyDriller (Author)**	https://github.com/ishepard/pydriller
	PyDriller is a Python framework that helps developers in analyzing Git repositories. With PyDriller you can easily extract information such as commits, modifications, diffs, and source codes.	
2013 - 2015	**Pebble Apps and Watchfaces**	
	I wrote many apps and whatchfaces for the smartwatch Pebble. My main whatchface was downloaded 3k times, while my TransmissionTorrent app was downloaded 2k times.	
2017 - →	**MockExtractor (Author)**	https://github.com/ishepard/MockExtractor
	MockExtractor extracts the list of mocked and non mocked dependencies in all test units (JUnit tests) of a given system.	

OS Preference
MacOS ★★★★★
GNU/Linux ★★★★☆
Unix ★★★☆☆
Windows ★★☆☆☆

Languages
Italian ★★★★★
English ★★★★☆

Education

07/2016 - →   **Ph.D. in Software Engineering**   Delft University of Technology / SIG
European project Seneca (`http://senecaproject.github.io`)
Academic advisor: Dr. Alberto Bacchelli
Industry advisor: Dr. Magiel Bruntink
Research Interest:
- Cloud-related testing practices
- Software testing
- Mocking
- Code reviews
- Collaborative testing

2013–2016   **Master's degree in Computer Science**   University of Trento
Thesis Title: The Wormhole Peer Sampling Service implemented over WebRTC
Advisor: Prof. Alberto Montresor
In collaboration with: Hive-Streaming (Stockholm, Sweden) `https://www.hivestreaming.com`
Main Topics:
- WebRTC
- Distributed systems
- Distributed algorithms
- Network protocols

2009–2013   **Bachelor's degree in Computer Science**   University of Verona
Main Topics:
- Software Design/Engineering
- Database Management System
- Unix scripting
- Advanced programming
- Advanced Networking

2005–2009   **High school leaving qualification in Computer Science**   ITIS G. Marconi

- Basic programming
- Network protocols

2007 - 2008   **Internship in the Technical Support Office** VOLKSWAGEN GROUP ITALIA S.P.A.
IT support to the employees.

References

Alberto Bacchelli   **bacchelli@ifi.uzh.ch**
University of Zurich - Professor

Arie Van Deursen   **arie.vandeursen@tudelft.nl**
TU Delft - Head of the Department of Software Technology

Magiel Bruntink   **m.bruntink@sig.eu**
Software Improvement Group - Head of Research

Publications

Articles in peer-reviewed journals

[1] Mock objects for testing java systems
Davide Spadini, Maurício Aniche, Magiel Bruntink, Alberto Bacchelli
Empirical Software Engineering *(2018) pp. 1–38. Springer US.*

Abstracts in peer-reviewed conferences

[1] Test-Driven Code Review: An Empirical Study
Davide Spadini, Fabio Palomba, Tobias Baum, Stefan Hanenberg, Magiel Bruntink, Alberto Bacchelli
Proceedings of the 41st ACM/IEEE International Conference on Software Engineering, 2019.

[2] When testing meets code review: why and how developers review tests
Davide Spadini, Maurício Aniche, Margaret-Anne Storey, Magiel Bruntink, Alberto Bacchelli
2018 IEEE/ACM 40th International Conference on Software Engineering (ICSE), 2018.

[3] On the relation of test smells to software code quality
Davide Spadini, Fabio Palomba, Andy Zaidman, Magiel Bruntink, Alberto Bacchelli
2018 IEEE International Conference on Software Maintenance and Evolution (ICSME), 2018.

[4] Software analytics in continuous delivery: a case study on success factors
Hennie Huijgens, Davide Spadini, Dick Stevens, Niels Visser, Arie Deursen
Proceedings of the 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement, 2018.

[5] PyDriller: Python framework for mining software repositories
Davide Spadini, Maurício Aniche, Alberto Bacchelli
Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, 2018.

[6] Information needs in contemporary code review
Luca Pascarella, Davide Spadini, Fabio Palomba, Magiel Bruntink, Alberto Bacchelli
, 2018.

[7] Practices and tools for better software testing
Davide Spadini
Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering, 2018.

[8] To mock or not to mock?: an empirical study on mocking practices
Davide Spadini, Maurício Aniche, Magiel Bruntink, Alberto Bacchelli
Proceedings of the 14th international conference on mining software repositories, 2017.

Honors & Awards

Best Paper Award Honorable Mention   CSCW'18
Information needs in contemporary code review

Certifications

2007   **CCNA 1**
         Cisco Certified Network Associate Exam
2008   **CCNA 2**
         Cisco Certified Network Associate Exam