



# Davide Spadini

Software Engineer @ Meta

## Address

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## Tel & Skype

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## Mail

spadini.davide@  
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## Web & Git

ishepard.github.io  
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## Tech Stack

Python, Java, Typescript,  
Javascript, Spring Boot,  
Hibernate, Mockito, JUnit,  
FastAPI, Pytest, MongoDB,  
Docker, AWS, Agile Dev,  
DevOps, Git, GitHub, Sentry

## Personal Skills



## About me

I am a Senior Software Engineer currently working at Meta in the WhatsApp organization. WhatsApp provides a complex environment where I manage the backend frameworks and tools for multiple platforms, including Android, iOS, Mac, and Web, that allow hundreds of thousands of tests to run without issues and hundreds of developers to ship their code safely.

I **actively work** on Open-Source projects: I am the author of **PyDriller**, a Python framework for Git. As of late 2024, Pydriller is downloaded around 500K times a month, and many universities/schools teach this tool in their engineering courses! Furthermore, PyDriller is used in some companies like SIG and Mozilla.

## Experience

- 2021 - → **Software Engineer** Meta  
Senior Software Engineer in the WhatsApp organisation, working mainly on backend applications and expert on DevOps, Agile Dev, CI/CD, IaC, Continuous Jobs, Signal Quality, Unit/E2E Testing, Dev Velocity.
- Spearheaded multiple multi-months multi-XFN projects
  - I developed and maintained multiple backend tools and frameworks, such as a test selection tool, a phone number service, test runners, buck2 and coverage tools
  - Managing all CI and local testing jobs of multiple WhatsApp clients: Android, iOS, Mac, Web, VR
  - I worked and owned many projects focused on developers experience, shift-left, code quality and CI reliability
  - Supported different testing frameworks for different test types (unit, integration, snapshot, e2e, etc.)
- 06/08 2020 **Software Engineer Intern** Meta  
Software Engineer intern in the Sapienz team, an unsupervised testing platform that automatically interacts with the app's UI to find regressions (crashes, ANRs, performance regressions, memory leaks, ...).
- I created the "repro" platform: a way for developers to reproduce the crash found by Sapienz and collect more logs, videos, and info about the crash.
- 2016 - 2020 **Researcher** Software Improvement Group  
Researcher on test code quality and maintenance, mining software repositories and code review.

## 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.

## OS Preference

MacOS ★★★★★  
GNU/Linux ★★★★★  
Windows ★★★★★

## Languages

Italian ★★★★★  
English ★★★★★

## Education

- 2016–2020 **Ph.D. Cum Laude 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:
  - Software testing
  - Mocking
  - Code reviews
- 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
- 2009–2013 **Bachelor's degree in Computer Science** [University of Verona](#)  
Main Topics:
  - Software Design/Engineering
  - Database Management System
  - Advanced programming
  - Advanced Networking
- 2005–2009 **High school leaving qualification in Computer Science** [ITIS G. Marconi](#)  
Basic programming and network protocols

## References

- Thomas  
Bender [thbender@meta.com](mailto:thbender@meta.com)  
Meta - Engineering Manager
- Alberto  
Bacchelli [bacchelli@ifi.uzh.ch](mailto:bacchelli@ifi.uzh.ch)  
University of Zurich - Professor
- Arie Van  
Deursen [arie.vandeursen@tudelft.nl](mailto:arie.vandeursen@tudelft.nl)  
TU Delft - Head of the Department of Software Technology

## Publications

List of publications: [Link to Google Scholar](#)

## Honors & Awards

**Best Paper Award Honorable Mention**  
Information needs in contemporary code review

[CSCW'18](#)