



# Davide Spadini

Software Engineer @ Meta

## Address

7A Lichfield Grove  
London, UK

## Tel & Skype

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## Mail

spadini.davide@  
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## Web & Git

ishepard.github.io  
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twitter.com/davidespadini

## Tech Stack

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

## Personal Skills



## About me

I am an experienced 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

Backend Software Engineer

- Tech stack: Python, Java, Typescript, PHP, Starlark, Rust
- Backend SE working on multiple 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.)

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06/08 2020

### Software Engineer Intern

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, ...).

- Tech stack: Python, Typescript, PHP
- 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.

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2016 - 2020

### Researcher

Researcher on test code quality and maintenance, mining software repositories and code review.

Software Improvement Group

## OSS Projects

2017 - →

### PyDriller (Author)

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.

<https://github.com/ishepard/pydriller>

## 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** [CSCW'18](#)  
Information needs in contemporary code review