



Davide Spadini

Software Engineer @ Meta

Address

7A Lichfield Grove
London, UK

Tel & Skype

+44 (0)7778 299087
dade.spadi

Mail

spadini.davide@
gmail.com

Web & Git

ishepard.github.io
github.com/ishepard
linkedin.com/DavideSpadini
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 Italian Software Engineer & Researcher with a strong background in software development and testing. I currently work as a Software Engineer at Meta in the team "Whatsapp Test Automation Infra": We focus on building infrastructure, tools and frameworks for the core WhatsApp platforms to allow engineers at WhatsApp to reliably and safely test their apps. I obtained a Ph.D. degree Cum Laude in Software Engineering at Delft University of Technology.

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 350K 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
Software Engineer in the Whatsapp Test Automation Infra team.
- Backend SE working on multiple tools and frameworks, such as a test selection tool, a phone number service, test runners, coverage tools and more
 - Tech stack: Python, Typescript, PHP, Starlark, Java, Rust
 - Managing all CI and local testing jobs of multiple WhatsApp clients: Android, iOS, Mac, Web, VR, and more
 - 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**
Meta - Engineering Manager

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

Publications

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

Honors & Awards

Best Paper Award Honorable Mention [CSCW'18](#)
Information needs in contemporary code review