

# Gabriel Diegel

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Born: December 20, 1982  
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## Current position

Software Engineer, Tekton, Lima, Peru

## Skills

### Programming languages

Java, Kotlin, Groovy, Python, R

### Technologies

Maven, Spring Boot, Docker, JUnit5, Selenium Webdriver, Protractor, Git, GitlabCI, Jenkins, GoCD, Grafana, Tableau, Ansible, Kubernetes

## Experience

2019-  
current

### Software Engineer Tekton, Lima, Peru

- Developed backend with Spring Boot for Peruvian bank
- Developed automated frontend acceptance test suite and integrated with CI for US client
- Developed automated backend acceptance test suite for new CMS for US client
- Extended DevOps tooling to support acceptance testing in deployment pipelines
- Improved test execution framework by supporting asynchronous execution

2018-2019

### Senior Test Engineer 1&1 Internet SE, Karlsruhe, Germany

- Developed modular test strategy and tooling for web-based frontend tests
- Developed and supported strategy and framework for integrating functional acceptance tests into company-wide continuous delivery framework
- Planned, executed and analysed performance tests for next-gen backend store architecture and Single-Sign-On solution
- Advised on and implemented metrics and data gathering approach, analyzed and visualized data in Grafana
- Supervised theses of graduate students
- Lead test automation guild

2013-2018

### Test Engineer 1&1 Internet SE, Karlsruhe, Germany

- Developed acceptance test suites in Java for broad range of backend services using protocols like HTTP, SMTP, IMAP and POP3
- Developed declarative framework in Java for HTTP-based API tests
- Developed RESTful web service with Spring Boot for collecting metrics of deployed software artifacts

- 2010-2013 **Test Analyst** Atos Worldline GmbH, Frankfurt, Germany
- Analyzed and tested data reports drawn from large-scale customer data and transaction database
  - Introduced test automation for functional acceptance tests
  - Developed a CLI tool in Python for test data management extracting data from main-frame database, filtering and automatically loading into Oracle databases
  - Introduced and administrated SVN server for QA team
- 2009-2010 **Research Assistant** Fraunhofer IPM, Freiburg, Germany
- Developed software for an automated particle detection system in Matlab
  - Integrated a fast hardware-based data acquisition system

## Education

- 2009 **Dipl.-Ing. (FH)** in Electrical Engineering, Hochschule Karlsruhe, Germany  
 Thesis title: *"Development of an automated image analysis software for a fluorescence-based data acquisition system for the detection of airborne microorganisms"*

## Certifications

- ISTQB Certified Tester: Foundation Level

## Languages

- German: Native tongue
- English: Fluent
- Spanish: Fluent

## Hobbies

Weightlifting, Writing, Cooking

## Blog articles

- 2015 ["Take your testing DSL to the next level with custom assertions"](#)
- 2016 ["JUnit5-Feeble screams from forests well known"](#)
- 2017 ["Using neo-problem with a pure Spring Boot service"](#)
- 2018 ["Writing a custom test engine with Kotlin"](#)
- 2019 ["Automated acceptance testing"](#)
- 2019 ["Running acceptance tests on GitlabCI"](#)