

## Gabriel Diegel

Lima, Peru

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## Last position

Senior Software Engineer at Tekton in Lima, Peru

## Specialized in

Cloud-native Software Development, Continuous Delivery, Automated Acceptance Testing

## Programming languages

Java, Kotlin, Python, Groovy, R

## Technologies

Spring, Docker, Kubernetes, JUnit5, Git, GitlabCI, Jenkins, Helm, PostgreSQL, Maven, Gradle, Azure, AWS, GCP

## Experience

- 2019-current **Senior Software Engineer at Tekton** in Lima, Peru
- Developed backend for US fintech with Spring Boot microservices, Google Pub/Sub, Kubernetes
  - 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
- 2018-2019 **Senior Test Engineer at 1&1 Internet SE** in Karlsruhe, Germany
- Developed modular test strategy, tooling and reporting 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 analyzed performance tests for next-gen backend store architecture and Single-Sign-On solution, implemented metrics and data gathering in InfluxDB, analyzed and visualized data in Grafana
  - Supervised theses of graduate students
  - Lead test automation guild
- 2013-2018 **Test Engineer at 1&1 Internet SE** in 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
- 2010-2012 **Test Analyst at Atos Worldline GmbH** in Frankfurt, Germany
- Analyzed and tested data reports drawn from large-scale customer data and transaction database
  - Developed a CLI tool in Python for test data management extracting data from mainframe database, filtering and automatically loading into Oracle databases
  - Introduced and administrated SVN server for QA team
- 2009-2010 **Software Engineer at Fraunhofer Institute for Physical Measurement Techniques IPM** in Freiburg, Germany
- Developed software for an automated particle detection system
  - Integrated a fast hardware-based data acquisition system

## Education

2025 B.Sc. in Psychology at Universität Hagen, Germany  
2009 Dipl.-Ing. (FH) in Electrical Engineering at Hochschule Karlsruhe, Germany  
Thesis: *"Development of an automated image analysis software for a fluorescence-based data acquisition system for the detection of airborne microorganisms"*

## Projects

2016 [retryJ](#): A retry library for Java

## Languages

German: Native  
English: Fluent  
Spanish: Fluent  
Italian: Learning

## 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"](#)