

# Gil Vegliach

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Languages:	EN, DE, IT	StackOverflow:	<a href="https://goo.gl/shvInz">https://goo.gl/shvInz</a>

KEYWORDS: AWS, EC2, DynamoDB, JSON, REST, Microservices, Scala, Play 2.x, SBT, Java, Spring, Maven, Android, Gradle, Dagger 2, Guice, Butterknife, Retrofit, Gson, Espresso, JUnit, GHE, Git, Jira, Agile, Scrum.

## Employment

AMAZON, Software Engineer, July 2017–July 2018.

- Integrated a dynamic config service and reduced onboarding time from 2h to some minutes.
- Built a service to transfer auth status from web to devices.
- Developed a solution based on CloudFront to reduce latency and time-in-the-network.
- Refactored metrics and alarms to reduce autocut tickets to decrease on-call burden.
- Responsible for the operations of two tier-1 services with world-scale load.
- On-call and hot fix responsibility for such services.

TOPTAL (3% admission rate), Software Engineer, contractor, Apr 2016–present.

- Global Mentor, helping students from low income backgrounds (<https://goo.gl/sbqDdC>).

ZALANDO (3.6B rev 2016), Software Engineer, Mar 2015–May 2017.

- Developed first high-load mobile API micro-service in Scala, 1000+ rps.
- Implemented a crawler to monitor the content and the availability of home and campaign pages.
- Built a caching layer with Clojure and ElasticCache to tell the login status of a customer.
- Set architectural patterns in the Android app to improve test coverage.
- Decreased Android app startup time by ~65% and crash rate to <0.5%.
- Built a Chrome extension to inject OAuth 2.0 tokens into URL ranges to improve dev productivity.
- Interviewed countless developers, juniors to leads, doubling the Android team in less than 6 months.
- Given internal workshops on testability, unit testing, and code quality.
- Mentored new developers, especially in functional languages like Scala.

CORTADO AG, Software Engineer, Jun 2013–Feb 2015.

- Prototyped and responsible for architecture of Cortado Corporate and Template.
- Implemented key components such as preview, navigation, file operations, favorites, and others.
- Ported and adapted Personal Printing, a print job managing app.
- Collaborated with UX and product teams to assess requirements.

NATIONAL ICT AUSTRALIA, Software Engineer and Researcher intern, Aug–Dec 2012.

- Asked back to continue previous work after excellent performance.
- Expanded on the previous solution resulting in multiple scientific publications.

SIEMENS, Software Engineer intern Feb–Apr 2012.

- Reduced REAgent start-up time (~40 sec) replacing Drool Fusion with ad-hoc algorithms.
- Optimized queries in Optique which resulted in a demo for external customers.

NATIONAL ICT AUSTRALIA, Software Engineer and Researcher intern, Aug–Nov 2011.

- Developed a solution for Android security, published at the Nasa Formal Methods Symposium 2012.

## Education

M.Sc. EMCL (Computational Logic in Computer Science), Technische Universität Wien, 2010–Apr 2013, Austrian average: 1.2 on a scale 1.0–5.0 (Excellent); thesis mark: 1.0; European mark: A, ~US: 3.9–4.0 GPA

B.S. Mathematics, University of Trieste, 2006–2010, mark: 110/110 cum laude, ~US: 4.0 GPA.

## Continuous Learning and Certifications

AWS Certified Solutions Architect—Associate, 5 Jan 2018, (<https://goo.gl/sdm8a3>), score 87%

Oracle Certified Programmer, Java SE 5/6 (OCPJP, formerly SCJP), 28 Jun 2012, score 95%

Oracle Certified Associate, Java SE 5/6 (SCJA), 10 Jul 2010, score 86%

Big Data Analysis with Scala and Spark by EPFL on Coursera (<https://goo.gl/N8garp>), score 100%

Parallel programming in Scala by EPFL on Coursera (<http://goo.gl/mqKW03>), score 100%

Functional Program Design in Scala by EPFL on Coursera (<http://goo.gl/rrRViR>), score 100%

Functional Programming Principles in Scala by EPFL on Coursera (<https://goo.gl/vP9Kkf>), score 100%

Computational Investing by Georgia Tech on Coursera (<https://goo.gl/oM9SZg>), score 100%

Accounting & Financial Statement Analysis by 365 Careers (<https://goo.gl/sUgBXG>)

## Scientific Publications

The ins and outs of first-order runtime verification, 2015, with A. Bauer and J. Küstar, *Formal Methods in System Design* 46(3)

From propositional to first-order monitoring, 2013, with A. Bauer and J. Küstar, *Proc. 4th International Conference on Runtime Verification (RV)*

Runtime Verification meets Android Security, 2012, with A. Bauer and J. Küstar, *NASA Formal Methods Symposium (NFM 2012)*

Incomplete Databases: Missing Records and Missing Values, 2012, workshop paper with W. Nutt and S. Razniewski, *Data Quality in Data Integration Systems (DQIS 2012)*