

Gil Vegliach

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Languages:	EN, DE, IT	StackOverflow:	https://bit.ly/gil-so

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

Employment

GOOGLE, Software Engineer, Zürich, Oct 2018–present.

- Quantitative work to improve Search models and algorithms (C++).
- Set direction for adjacent engineers. Responsible for the full software cycle of multi-quarter projects.
- Organizes sessions to share knowledge in the team; helps with organization of team events.
- Mentors new engineers. Interviews engineer candidates.

AMAZON, Software Engineer, London, 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 and 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, internet, Apr 2016–June 2017.

ZALANDO (3.6B rev 2016), Software Engineer, Berlin, 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.
- Maintained the main Zalando shop app written in Java using Spring.
- Set up CI pipeline in Jenkins to increase dev speed.
- 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, Berlin, 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, Researcher intern, Canberra, Aug–Dec 2012.

SIEMENS, Software Engineer intern, Munich, Feb–Apr 2012.

NATIONAL ICT AUSTRALIA, Researcher intern, Canberra, Aug–Nov 2011.

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

Supervised Machine Learning: Regression and Classification by Stanford Online on Coursera, Sept 2023, (<https://bit.ly/ml-regression-classification>), score 100%

AWS Certified Solutions Architect—Associate, 5 Jan 2018, 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://bit.ly/scala-big-data>), score 100%

Parallel programming in Scala by EPFL on Coursera (<https://bit.ly/scala-parallel-programming>), score 100%

Functional Program Design in Scala by EPFL on Coursera (<https://bit.ly/scala-functional>), score 100%

Functional Programming Principles in Scala by EPFL on Coursera (<https://bit.ly/scala-principles>), score 100%

Computational Investing by Georgia Tech on Coursera (<https://bit.ly/computational-investing>), score 100%

Accounting & Financial Statement Analysis by 365 Careers (<https://bit.ly/accounting-certification>)

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)*

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