PERSONAL INFORMATION	Marko Ivanković

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WORK EXPERIENCE

2016–Present Staff Software Engineer / Engineering Manager

Google, Zurich (Switzerland)

Engineering manager and technical lead in the Engineering Productivity group.

Lead multiple teams focused on improving the internal developer experience at Google for all Google's engineers. In particular in the areas of:

- Data Infrastructure and Analysis
- Test coverage
- Mutation testing
- Large scale code manipulation
- Large scale code analysis
- Engineering process metrics
- Resource usage optimization
- Machine learning on code and code related artefacts

I manage a team of ~25 engineers.

These days I directly technically contribute towards research in fundamentals of software engineering.

2014–2016 Senior Software Engineer, Tools and Infrastructure

Google, Zurich (Switzerland)

Technical lead in the Ads Engineering Productivity group.

Conceptualized, designed, implemented and owned core pieces of Google's developer infrastructure, in particular test coverage infrastructure.

Delivered multiple other medium scoped projects that improve productivity of various engineering subgroups.

2011–2014 Software Engineer, Tools and Infrastructure

Google, Zurich (Switzerland)

Individual technical contributor in Ads Engineering Productivity group.

Developed specialized developer infrastructure for product teams.

Developed general developer infrastructure that solved tightly scoped problems for all Google's engineers.

2010–2010 Software Engineer - Intern

Google, Zurich (Switzerland)

Load and performance testing framework including result visualization

2007–2007 IOI 2007 - Evaluation Committee

International Olympiad in Informatics, Zagreb (Croatia)

Member of the evaluation committee.

One of the two authors of the IOI 2007 evaluation system.

2007–2011 Croatian Open Competition in Informatics - Scientific Committee

Hrvatski Savez Informaticara, Zagreb (Croatia)

Member of the scientific and the evaluation committee.

One of the key developers of the evaluation system that was used for more than a decade for the Croatian Open Competition in Informatics.

Organized task authors and contributed many tasks myself. As the chief of the committee I was the person ultimately responsible for the integrity of both the international open competition and the national proctored competition.

EDUCATION AND TRAINING

08/2018–Present Doctor of Science   EQF level 8

Universität Passau, Passau (Germany)

2010–2011 Master of Science   EQF level 7

University of Zagreb - Faculty of electrical engineering and computing, Zagreb (Croatia)

Thesis: Software framework for performance benchmarks of cross-context communication systems for Web browsers

GPA: 4.372 / 5.0

2007–2010 Bachelor Of Science   EQF level 6

University of Zagreb - Faculty of electrical engineering and computing, Zagreb (Croatia)

Final Project / Thesis: *Library for RPC calls over HTTP protocol between web browsers*

GPA: 4.834 / 5.0

PERSONAL SKILLS

Mother tongue(s)   Croatian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
German	B2	B2	B1	B1	B1

Russian	A1	A2	A1	A2	A2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills	■ Formally trained in debating

Organisational / managerial skills	■ Experience managing organizations of up to 30 people
	■ Experience managing multiple engineering teams concurrently
	■ Experience managing other managers

ADDITIONAL INFORMATION

Conferences	Code coverage at Google (ESEC/FSE 2019, PDF)

Conferences	State of Mutation Testing at Google (ICSE - SEIP 2018, PDF)

Conferences	An Industrial Application of Mutation Testing: Lessons, Challenges, and Research Directions. (ICSTW - Mutation 2018, PDF)

Conferences	Analyzing statement coverage at Google (Swiss Testing Day 2015)

Patent	Process for displaying test coverage data during code reviews (US Pat. No. 9,405,662)

Competition	Certificate of achievement at ACM Central European Programming Contest:
	■ Budapest, Hungary (2006.)
	■ Prague, Czech Republic (2007.)
	■ Wroclaw, Poland (2009.)

Competition	Silver medal at the IOI 2006