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WORK EXPERIENCE

EMPLOYER	Google Switzerland GmbH	Zürich, Switzerland
PERIOD	June 2019 — now (3 years+)	
POSITION	Software Engineer, Site Reliability Engineering	

Ensuring the reliability and availability of globally distributed Google Workspace products, serving 1B+ active users.

Highlights

- Made schema changes safer for hundreds of internal databases by rolling out push time safety checks
- Reduced crash rates, and improved behavior when a critical subsystem is unavailable
- Identified, escalated, and recovered a data loss incident (##k items affected)
- On-call rotation with 12 hour shifts, 5 minute response time
- Performed regular technical interviews
- Improved the team on-boarding process, mentored teammates, hosted interns

EMPLOYER	Self-employed , owner at Razvoj budućnosti d.o.o.
PERIOD	2017 — 2019 (15 months contracted)
POSITION	Software development consultant

In partnership with CodeControl GmbH, I consulted several tech startups in Germany.

- For a fintech startup, did back-end software engineering in Spring, integrating with solarisBank, and providing an API for the mobile apps.
- For a medtech startup, I helped migrate their development team from a consulting agency to an in-house team by interviewing and hiring a CTO, and building the basics of their new backend in Spring and Kotlin
- For a social startup, acted as the team lead on an Android client for a real-time social network. Helped interview, hire, and onboard three members.

EMPLOYER	Google Switzerland GmbH	Zürich, Switzerland
PERIOD	July 2018 — October 2018 (3.5 months)	
POSITION	Site Reliability Engineering Intern, Google Docs	

Designed and implemented a document validation and testing framework.

EMPLOYER	Google UK Ltd	London, United Kingdom
PERIOD	July 2017 — September 2017 (3 months)	
POSITION	Software Engineering Intern, Android UI Toolkit	

Implemented the Smart Text Select animation introduced in Android Pie.

EMPLOYER	Microsoft Ireland Research	Dublin, Ireland
PERIOD	July 2016 — October 2016 (3 months)	
POSITION	Software Engineering Intern, Office Marketplace Experience	

Fixed test automation that stopped working after a version control and build system migration.

EMPLOYER	CROZ d.o.o.	Zagreb, Croatia
PERIOD	June 2012 — June 2016 (4 years)	
POSITION	Software, tools, architecture and integration consultant (part-time, 50%)	

Designed and implemented projects ranging from simple mobile applications to complex enterprise systems, with banks, telecoms, and government as clients. Provided on-site customer consulting, and lead, educated, and mentored smaller teams.

EDUCATION

DEGREE	Master of Science in Computing (graduated September 2019)
UNIVERSITY	Faculty of Electrical Engineering and Computing, University of Zagreb
THESIS	Analysis and Comparison of System Load Forecasting Algorithms for Automated Scaling of Distributed Systems

Select courses	Artificial Intelligence (34285)	Distributed Systems (34456)
	Distributed Big Data Processing (147660)	Analysis of massive data sets (147658)
	Advanced Algorithms and Data Structures (34395)	Formal Methods in System Design (34401)
	Fuzzy, Evolutionary and Neuro-computing (34475)	Heuristic Optimization Methods (72561)

DEGREE	Bachelor of Science in Computing (graduated July 2017)
UNIVERSITY	Faculty of Electrical Engineering and Computing, University of Zagreb
THESIS	Secure and Scalable Remote Execution of Students' Programming Assignments

Electives	PHP Application Development Basics (58312)	Basic Use of Linux (86495)
	Web project development (IZRWEB)	Advanced Use of Linux (86484)
	Programming in Haskell (127252)	Competitive programming (65973)
	Introduction to Java programming language (38047)	

SELECT PROJECTS AND TALKS

STEM Games 2018

Helped organise the 2018 STEM Games held in Poreč, Croatia. Part of the team that organised the Technology Arena, an interactive software engineering competition for students of various backgrounds. I built the competition platform front-end using a modern stack (Vue, Pug, SASS and PhoenixJS), and integrated it with the Elixir/Phoenix back-end.

Madison.hr

Madison is a public relations agency based in Zagreb, Croatia. I was part of the team that built their new website, building the front-end part of a modern Ruby on Rails application which allows the team to perform edits to the site in real-time using an intuitive WYSIWYG approach implemented with Phrasing.

Sumirra

Sumirra was a startup which allowed Croatian students to see an aggregation of their student incomes and their tax obligations, helping them and their parents avoid hefty tax back payments caused by unclear taxation laws. As part of the core team, using Kotlin and Spring, I built the back-end services which scraped and aggregated income data. Sumirra won the 2017 App Start Contest and was a part of SPOCK, a startup incubator. Sumirra gained a lot of support and following, but work was ultimately halted due to a lack of institutional support.

European Universities Games 2016 Mobile Applications

I was part of the team that built the mobile companion apps for the European Universities Games held in Zagreb, Croatia. My responsibilities included architecting, developing and supporting the native Android application written in Kotlin, as well as integrating our back-end solution with the official EUG website.

Tour of Croatia 2016 Mobile Applications

Led the team of 4 that developed the native iOS and Android companion applications for the Tour of Croatia 2016. My responsibilities included designing the API which powered the apps, designing the application flows and architecting and developing the Android application, written in Kotlin.

American Express MyAccount

Led the team of 5 that developed the Android and Windows Phone versions of the MyAccount mobile application using Sencha Touch and Apache Cordova.

The highs and lows of Android app development with Xtend

Held a talk on the first Croatian droidcon (an international conference on Android development) about my experiences with developing Android applications with Xtend - an alternative language for developing on the JVM.

COMPETITIONS AND AWARDS

Palantir Zagreb Extreme Start-up	1 st place	App Start Contest 2017	1 st place
Elektrijada 2017, Informatics (team)	2 nd place	Agrokor "Inovacijom do poslovne prilike"	1 st place
Copenhacks 2016	1 st place	Elektrijada 2016, Informatics (team)	1 st place
LC Code Challenge	1 st place	Telegram BlackBerry 10 contest	2 nd place
Elektrijada 2015, Informatics (team)	2 nd place	Best Code Challenge 2014	4 th place
mStart Hacktition	2 nd place	BlackBerry 10 Limited Edition	recipient
App Start Contest 2013	Finalist	VIP Android Challenge	5 th place
CROZ Codequest	1 st place	English, national competition	2 nd place
Informatics, national competition	2 nd place		