

# PETAR ŠEGINA

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## WORK EXPERIENCE

EMPLOYER	<b>Google Switzerland GmbH</b>	Zürich, Switzerland
PERIOD	<b>June 2019 — now</b> (2 years+)	
JOB TITLE	<b>Software Engineer, Site Reliability Engineering</b> (full-time)	
Ensuring the reliability and availability of a globally distributed product with 1B+ active users.		
EMPLOYER	<b>CodeControl GmbH for smava GmbH</b>	Zagreb, Croatia (remote)
PERIOD	<b>November 2018 — January 2019</b> (3 months)	Berlin, Germany
JOB TITLE	<b>Back-end Software Engineer</b> (full-time)	
As part of CodeControl's specialist project team, I worked on the Spring-powered back-end of smava's new consumer loan product. My main responsibility was implementing complex business rules, building the API for the mobile apps and integrating the solution with solarisBank.		
EMPLOYER	<b>Google Switzerland GmbH</b>	Zürich, Switzerland
PERIOD	<b>July 2018 — October 2018</b> (3.5 months)	
JOB TITLE	<b>Site Reliability Engineering Intern, Google Docs</b> (full-time, internship)	
Designed and developed an internal validation and testing framework for Google Docs, Sheets, Presentations and Drawings documents to improve the consistency and reliability of Docs.		
EMPLOYER	<b>Myosotis GmbH</b>	Zagreb, Croatia (remote)
PERIOD	<b>January 2018 — June 2018</b> (6 months)	
JOB TITLE	<b>Software Engineering consultant</b> (part-time)	
Assisted the Myo team in modernising their back-end stack and migrating their development team from a consulting agency to an in-house team by helping hire an in-house CTO. I also built the basics of their new back-end for their mobile applications with Spring and Kotlin.		
EMPLOYER	<b>Google UK Ltd</b>	London, United Kingdom
PERIOD	<b>July 2017 — September 2017</b> (3 months)	
JOB TITLE	<b>Software Engineering Intern, Android UI Toolkit</b> (full-time, internship)	
Implemented the user-facing animation for the Smart Text Select feature in Android Pie. The feature was integrated into the very core of the Android framework by contributing to low-level components such as TextView and is now a part of the Android Open Source Project.		
EMPLOYER	<b>JustUpped</b>	Zagreb, Croatia (remote)
PERIOD	<b>January 2017 — June 2017</b> (6 months)	Munich, Germany
JOB TITLE	<b>Android Team Lead</b> (full-time)	
Architected and worked on the Android client for a new real-time social network and helped interview, hire and onboard three new members as well as provide them with technical guidance.		
EMPLOYER	<b>Microsoft Ireland Research</b>	Dublin, Ireland
PERIOD	<b>July 2016 — October 2016</b> (3 months)	
JOB TITLE	<b>Software Engineering Intern, Office Marketplace Experience</b> (full-time, internship)	
Supported the migration between two build systems and two version control systems by making sure existing test automation continued to work by analysing, debugging, fixing and improving existing solutions and streamlining them as part of a continuous integration cycle.		
EMPLOYER	<b>CROZ d.o.o.</b>	Zagreb, Croatia
PERIOD	<b>June 2012 — June 2016</b> (4 years)	
JOB TITLE	<b>Software, tools, architecture and integration consultant</b> (part-time)	
Part-time software developer designing and working on various mobile, web and back-end solutions. Projects ranged from simple mobile applications to complex enterprise systems for key customers, including banks and telecoms. My responsibilities included software design, development, and integration, on-site customer consulting as well as leading, educating, and mentoring smaller teams.		

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

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

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

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