

# Kristijan Rebernisak

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<https://github.com/krebernisak>

## INTERESTS & PROFICIENCY

I have been writing code, running servers and experimenting with new software since 2004. Most recently the majority of code I have written has been in Java and JavaScript, but I have experience in many other languages and technologies. I am a full-stack developer interested in designing and building scalable distributed systems as well as usable mobile and web clients.

- ▶ Proficient in Java, JavaScript and Solidity
- ▶ Some experience in Kotlin/Swift, Python and familiar with C, C++, C#, MATLAB, Ruby and many others
- ▶ Well experienced in building applications for the Android platform
- ▶ Web technologies (HTML5, CSS3, SVG, DOM, AJAX, REST, SOAP, WSDL, JSON, XML)
- ▶ Relational databases and object-relational mapping (SQL, Hibernate, JDO, JPA)
- ▶ Non-Relational databases (Blockchain, Firebase, Redis, Elasticsearch)
- ▶ General knowledge of cryptography and network security
- ▶ Tools: Git, Mercurial, Gradle, Maven, Ant, UNIX/Linux
- ▶ Object-oriented design, Domain Driven Design, Test Driven Design, Functional programming
- ▶ Passion for distributed systems, product design, and agile methodologies

## WORK EXPERIENCE

**RunningBeta** a blockchain research company and private investment vehicle

Co-Founder and Technical Lead, Aug 2017 - Present

- ▶ Distributed protocol design and system architecture
- ▶ Token economics and mechanism design research and prototyping
- ▶ Ethereum smart contract development
- ▶ Technologies: Bitcoin, Ethereum, Solidity, JavaScript, TypeScript, Truffle, web3.js, IPFS, React, Redux, Reactive Streams, Python

**Tolar HashNET** crypto-currency featuring scalable, fast, secure, and fair transactions

Smart Contract Engineer and Technical Advisor, Mar 2018 - Mar 2019

- ▶ Advising on and development of smart contract Ethereum infrastructure, used by Tolar for fundraising and HashNET chain migration.
- ▶ Technologies: Ethereum, Solidity, JavaScript, TypeScript, React, Redux, Reactive Streams

**Bellabeat** an Health-Tracking intelligence platform for women

Mobile Team Lead and System Architect, Sep 2015 – Mar 2017

- ▶ Lead a team of 10 engineers (iOS, Android, QA)
- ▶ High-level system architecture and technology strategy design and implementation
- ▶ Native Android mobile app, Bellabeat Leaf, architecture, and implementation
- ▶ Core Java shared (Android, Backend, iOS - J2Objc) library architecture, and implementation
- ▶ Pushed adoption of functional-reactive programming on multiple projects and platforms
- ▶ Technologies: Java, Android SDK, Bluetooth LE, Reactive Streams (RxJava, RxSwift), Firebase, J2Objc, Elasticsearch, Kotlin

**ShoutEm** mobile app builder

Android Developer, May 2013 - Sep 2015

- ▶ Design and develop a hybrid Android/HTML5 mobile app
- ▶ Redesigned an Android native wrapper to run the HTML5 application
- ▶ Decreased Android code base by 25% after four weeks of work

- ▶ Developing features and architecture for an HTML5 application that was deployed to thousands of users on iOS, Android and across mobile and desktop browsers
- ▶ Working closely with server team designing backend REST API
- ▶ Loyalty module lead developer and architecture design
- ▶ Using a local proxy server enabled podcast streaming for US Sprint users
- ▶ Assisted in architecture planning and building of an in-house data collecting system
- ▶ Technologies: Java, Android SDK & NDK, Apache Cordova, HTML5, CSS, JavaScript, Node.js, Elasticsearch, Ruby, Python

**Five Minutes Ltd.** now FIVE - Mobile App Design and Development Agency

Android Developer, November 2012 – May 2013

- ▶ Developing Android apps for various enterprise clients like Allianz, The Hearst Corporation, Konzum and startups like Fogg Mobile and Visiobike.
- ▶ Bluetooth protocol communication with hardware controller used by an electric bicycle
- ▶ Ad hoc wifi webcam streaming in MJPEG video format
- ▶ Technologies: Android SDK & NDK, Maven, Ant, RoboGuice, Otto, kSOAP 2, Bluetooth, SQL

### **Real Networks**

Java EE Developer, CUEComm, April 2012 - November 2012

- ▶ SOAP API backend used by MEP Storefront
- ▶ Rewritten from the ground up for better scalability and maintenance
- ▶ Extensive testing with SoapUI and JMeter
- ▶ Technologies: J2EE, Spring, SOAP, Hibernate, JBoss, Ant, Solr

Java EE Developer, MEP Storefront, February 2011 - April 2012

- ▶ Media Entertainment Platform for providing music, ringtones and ringback tones to mobile carrier users
- ▶ Designed and implemented features for some major mobile carriers in the US (MetroPCS, Verizon, Sprint) and EU
- ▶ Implemented SSO for clients applications using Oracle OpenSSO Fedlet
- ▶ Technologies: J2EE, JSP, SOAP, WSDL, JBoss portal, Tomcat, Maven, SAML 2.0

## **EDUCATION**

**MASTER OF SCIENCE IN COMPUTER SCIENCE** June 2011

Faculty of electrical engineering and computing, University of Zagreb

**BACHELOR OF SCIENCE IN COMPUTING** July 2009

Faculty of electrical engineering and computing, University of Zagreb