



# Alexey Zubritskiy

Senior Software Engineer, Architect,  
Blockchain Specialist

I am a passionate programmer—and I mean it. I love challenging tasks and difficult problems. I started writing code before I even had a device to run it on, and I have never stopped since. I enjoy overcoming hardware and software limitations. I love learning new technologies inside and out, embracing their methodologies, and creating exceptional products with them.

I have replaced the core of a complex system while it was running at full capacity. I have designed new systems from scratch. I have worked across diverse environments—from calculators and mobile devices to cloud platforms and supercomputers.

For me, programming is more than a job or a hobby—it is a way of life.

## WORK EXPERIENCE

### TRADING BOT (OWN PROJECT)

September 2024 - Present

#### Trading bot

##### 🚩 Senior Backend developer, Architect, Blockchain Specialist

- Development of bot runner (Go, MySQL)
- Development of trading strategies (TypeScript, Solidity)
- Indexing blockchain events and state (AssemblyScript)
- Maintenance of blockchain node and indexer instance (Erigon, TheGraph)

### VALK

December 2021 - July 2024

#### Merlin

##### 🚩 Senior Backend developer, Architect, Blockchain Specialist

- Updating architecture of blockchain indexer involving TheGraph
- Indexing of MakerDAO, Uniswap, Curve and others (Kotlin, AssemblyScript)

#### Smart wallet

##### 🚩 Senior Software Engineer, Architect, Blockchain Specialist

- Architecture and development of smart contracts (Solidity)
- Integration of MakerDAO main frontend functionality (JS, React)

#### Data network

##### 🚩 Senior Software Engineer, Architect, Blockchain Specialist

- Creating design and tokenomics of the indexers network (L2 network, proof of indexing, Zero-knowledge proofs)
- Architecture and development of network node and sandbox environment (Go, AssemblyScript)

### ROCKETDNA

November 2015 - November 2021

#### RocketDNA web app

##### 🚩 Senior Software Engineer, Architect (3 years)

- Full development of frontend (React)
- Full development of backend (Java)
- Full development of database (MySQL)
- Maintenance (docker, AWS)

Looking for remote job

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#### WEBSITE

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#### LINKEDIN

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#### GITHUB

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## SKILLS

### BLOCKCHAIN & DEFI 🔥

5 years experience, current priority

Solidity 95%

TheGraph 90%

DeFi protocols 85%

Nodes maintenance 70%

#### And also

Ethereum Cardano L2 chains

EVM AssemblyScript

Firehose Hardhat Uniswap

MakerDAO Geth Erigon

Trueblocks

### SERVER SIDE

10+ years experience

Kotlin 80%

Java 80%

GoLang 75%

Scala 75%

.NET 65%

Node.JS 70%

Python 60%

#### Including

Haskell Akka sbt

ScalaTest Ant Maven

JUnit ASP.NET C# VB.NET

REST OOP

Concurrent computing

Dependency injection

### FRONTEND

10+ years experience

JavaScript 95%

HTML 90%

## FIRMSHIFT

November 2015 - November 2021

### Liquifi AMM

#### 🚩 Senior Software Engineer, Architect, Blockchain Specialist (1 year)

- Architecture and full development of blockchain part of Liquifi V1 (Solidity)
- Participation in protocol design and math
- Development of Liquifi V2 on Cardano blockchain (Haskell)
- Backend development of Liquifi V2 for Cardano (Haskell)

### Clipeum KYC

#### 🚩 Senior Frontend developer (6 months)

- Frontend development (JS, React)

### BCG POC Factory

#### 🚩 Senior Frontend developer, Architect (6 months)

- Full development of RAD IDE for fast prototyping frontend of Blockchain Proof of Concept (Vue.js)
- Integration with Hyperledger and IoT sensors

### Reason.ai

#### 🚩 Machine learning engineer, Architect (3.5 years)

- Developing architectures, software solutions, and Machine Learning models for various domains, including Biotech and Public Services.
- Developing apps for supercomputers and clusters based on Massively Parallel Processing model (Python, TensorFlow)
- Developing and integrating natural language processing algorithms (Scala, Akka, Protobuf, Python)
- Researching approaches for meaning extraction and merging (AMR, Blazegraph)
- Working on Data Visualisation solutions (HTML5, JavaScript)

## ELSEVIER

September 2013 - July 2016

### PharmaPendium

#### Embase

#### 🚩 Senior Frontend developer, Architect (2.5 years)

- Creating architecture and step-by-step plan of migration from JSP-based frontend to Single-page application
- Developing Single-page application frontend, performing migration (AngularJS, BackboneJS, HTML, CSS, JS, Grunt, Ant)
- Developing frontend for new modules
- Integration frontend build toolchain into existing project build system (NodeJS, Grunt, Ant, Jenkins)
- Introducing and supporting newly joined developers
- Introducing and enforcing code style and documentation standards (JSHint, JSDoc)

### ScienceDirect

#### 🚩 Full stack developer (5 months)

- Developing documents downloader applet (AngularJS, HTML5, CSS)
- Developing documents downloader service (Java, REST, Amazon Redshift, Amazon S3)

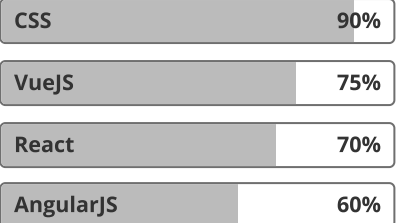
## PAYTOGETHER (OWN PROJECT)

January 2013 - August 2013

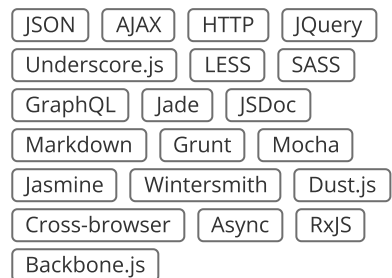
### Paytogether mobile app

#### 🚩 Mobile Application Developer

- Developing iOS application (Objective-C, SQLite)
- Developing Android application (Java, SQLite)
- Developing ORM library for android platform (Java, SQL)
- Publishing to AppStore



### Side dishes

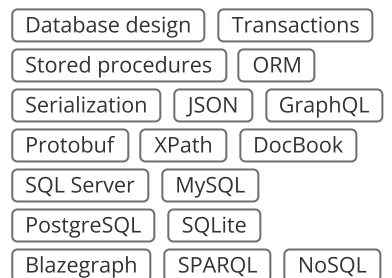


## DATA

10+ years experience

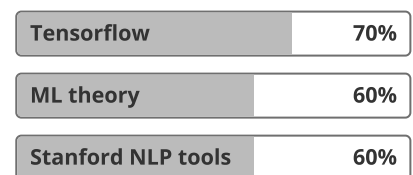


### More keywords



## MACHINE LEARNING & NLP

2 years experience

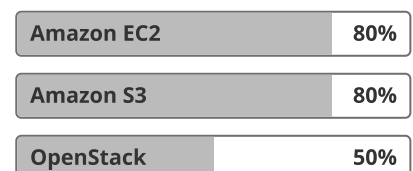


### Plus



## CLOUD

4 years experience



## HUNITE

November 2007 - December 2012

### Hunite Solution base

#### 🚩 Full stack developer

- Developing HRM web application (VB.NET, ASP.NET Web Pages, jQuery, AJAX, JavaScript)
- Developing database (MS SQL, T-SQL SQL reports)
- Doing researches, technical and architecture design, proof-of-concept
- Interviewing, introducing and supporting new team members

#### 🚩 Mobile developer

- Developing cross-platform HRM mobile application (Titanium Appcelerator, JavaScript)

#### 🚩 Documentation manager

- Creating software, process and structure for product requirements system (DocBook, XSLT)
- Managing team of requirements creators

## SOFTDEV LTD

February 2005 – November 2007

### Streamline

#### 🚩 Full stack developer

- Developing on-line Enterprise Project and Portfolio Management System (ASP.NET, C#, JS, SQL Server)

## INTERESTS

### BLOCKCHAIN TECHNOLOGIES

#### Smart contracts, DeFi, Chain indexing

Blockchains look like a gimmick at first glance. But making transactions in zero-trust environment is real and very valuable feature. Another challenge lies in extracting insights from all those transactions.

### FUNCTIONAL AND REACTIVE PROGRAMMING

#### Haskel, Scala, Akka, RxJS

Composition of High order functions folds and ties data flow in unbelievable ways. It is just a new world where you learn programming from scratch.

### LOW-LEVEL SOFTWARE

#### EVM

Ethereum virtual machine gives very limited computation power to for smart contracts. And it is great challenge to optimize a complex calculation working directly with opcodes and storage slots.

#### Rust

Rust is the way to safe and blazing fast calculations on almost bare hardware. I'd like to make a tiny ADs filtering proxy server capable to work on routers and even 3g modems.

### PET PROJECTS

Paytogether iOS app

Adblock2privoxy filters converter written in Haskel

SublimeText plugin on Python

And other projects on projects.zubr.me

### ARTICLES

Hough Transform on GPU (in Russian)

Fast Late-bound Calls with Generics in .NET

Straight way to create ASP.NET user controls library

### As well as

Amazon RDS

Amazon RedShift

Amazon DynamoDB

Other AWS services

### MOBILE

2 years experience

Objective-C & iOS 40%

Java & Android 50%

Titanium Appcelerator 50%

### TOOLS

my usual workplace

VS Code 95%

IntelliJ Idea 80%

Docker 85%

Git 80%

Linux 80%

### Less used tools

Eclipse

Jira

SublimeText

Visual Studio

Windows

TFS

bash

curl

MacOS

xCode

### COMMUNICATION

and collaboration

Russian 95%

English 80%

Team members cooperation 85%

Remote working 95%

## EDUCATION

### COURSERA

• Machine learning

• Principles of Reactive Programming

• Functional programming in Scala

### URAL STATE TECHNICAL UNIVERSITY

• Data processing and control systems