



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)

Datai 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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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

CSS 90%

VueJS 75%

React 70%

AngularJS 60%

Side dishes

JSON AJAX HTTP JQuery

Underscore.js LESS SASS

GraphQL Jade JSDoc

Markdown Grunt Mocha

Jasmine Wintersmith Dust.js

Cross-browser Async RxJS

Backbone.js

DATA

10+ years experience

SQL 85%

XML 80%

XSLT 75%

RegEx 95%

More keywords

Database design Transactions

Stored procedures ORM

Serialization JSON GraphQL

Protobuf XPath DocBook

SQL Server MySQL

PostgreSQL SQLite

Blazegraph SPARQL NoSQL

MACHINE LEARNING & NLP

2 years experience

Tensorflow 70%

ML theory 60%

Stanford NLP tools 60%

Plus

AMR RDF word2vec

MATHLAB

CLOUD

4 years experience

Amazon EC2 80%

Amazon S3 80%

OpenStack 50%

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