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, web3j)

Smart wallet

⚐ Senior Software Engineer, Architect, Blockchain Specialist

- Architecture and development of smart contracts (Solidity, Hardhat, web3.js)
- Integration of MakerDAO main frontend functionality (JS, React, web3.js)

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)

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SKILLS

BLOCKCHAIN & DEFI 🔥
5 years experience, **current priority**

Skill	%
Solidity	95%
Web3	90%
TheGraph	90%
DeFi protocols	85%
Nodes maintenance	70%

And also

Ethereum · Cardano · L2 chains · EVM · web3.js · ethers.js · AssemblyScript · Firehose · Hardhat · Uniswap · MakerDAO · Geth · Erigon · Trueblocks

SERVER SIDE
10+ years experience

Skill	%
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

Skill	%
JavaScript	95%

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, Hardhat, web3.js)
- 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 (Node.JS, 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

HTML	90%
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