

YEGOR POLYAKOV

Software Engineer | AI Product Developer

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Argentina, Buenos-Aires



RECENT EXPERIENCE

Software Engineer with AI Product Focus

Independent Project

05/2025 - Present 🗂️ Buenos Aires, Argentina

With a vision of a future where most tasks will be handled by AI, I am building my own AI infrastructure with a modular architecture that lets me add new features as needed. Using **Claude Code**, I am developing a personal AI assistant integrated with an Obsidian knowledge base via Retrieval-Augmented Generation (**RAG**). I am also working on a prototype of a universal document generator (**PBE**) as one of the plugins.

Full Stack Engineer

Independent Project

06/2022 - 05/2025 🗂️ Buenos Aires, Argentina

Developed a cross-platform mobile platform using **Flutter** and **AWS**, bringing the project to a high level of functional readiness. From the very beginning, laid the foundation for a scalable solution by applying **Clean Architecture** principles. Automated deployment and management of cloud infrastructure (**Infrastructure as Code**) using **AWS CDK**, ensuring reliability, repeatability, and efficiency of the development process.

On the frontend (**Dart + Flutter**), applied a feature-based approach for modular code organization. Working with an event-driven reactive architecture, went through several iterations with different state management solutions (**BLoC**, **Cubit**), ultimately choosing **Riverpod** to ensure optimal stability and performance.

On the backend (**AWS**), implemented authentication with **Amplify** and **Cognito**, business logic on **Lambda** using **Golang**, data storage with **DynamoDB** using composite keys, and media content storage with **S3**.

Blockchain Developer

Sber · Insolar · IBM · Bancor · ShelterZoom

2018 - 2022 🗂️ Russia

- **Sber.** Built a custom CRUD-style abstraction layer for **Hyperledger Fabric** (self-initiated and developed after hours), reducing feature implementation time from ~8 hours to ~15 minutes, simplifying composite-key data operations.
- **Insolar.** Designed the data architecture for a **blockchain-based wallet**, initiating the process and guiding a newly onboarded system architect through key design decisions. Leveraged deep understanding of blockchain constraints to build consistent and reliable data structures.
- **IBM.** Built a full testing environment and **CI/CD** pipeline for **Hyperledger Fabric**, doubling feature delivery speed; refactored the project structure (~30% codebase) and led a **CouchDB→LevelDB** migration that improved data operations performance by 40%. Delivered a cross-channel **encryption** solution with zero defects despite the absence of formal requirements.
- **Bancor.** Replaced **Hyperledger Fabric** use with a **Bitcoin**-based anchoring solution.
- **ShelterZoom.** Identified flaws in their **Hyperledger Fabric** setup and proposed a simpler, faster immutable-DB design.

SUMMARY

Experienced Software Engineer with 10+ years of development, possessing strong logical and abstract thinking skills and the courage to look directly at the core of a problem.

I'm looking for a team where openness, calm communication, and a friendly atmosphere truly matter. It's important for me to be part of a team that genuinely works together, not just completes tasks.

My driving force is the pursuit of creating universal frameworks and constructors, as I see great potential in avoiding duplication and implementing generalized solutions efficiently in databases and system architecture.

I wrote in a dozen programming languages during the studying, starting with Pascal, ending with OCaml C, Haskell, Brainfuck. From my school years, I was engaged in scientific activities and spoke at scientific conferences. I dealt with information decomposition algorithms, their approximation and adaptation; the field of neural networks; the area of information analysis.

EDUCATION

Bachelor, System Administration of Information Systems

Mathematics and Mechanics Faculty, St. Petersburg State University, Russia

09/2012 - 09/2017

Mathematics

Laboratory for Continuous Mathematical Education (LNMO), Saint Petersburg, Russia

2008 - 2012

AWARDS

ICYS. Mathematics

State Competition. Mathematics

Baltic Scientific and Engineering Competition. Computer Science

LANGUAGES

English
Advanced



Spanish
Beginner



INDUSTRY EXPERTISE

Golang



Flutter (Dart)



Java



JavaScript



Delphi



Ruby on Rails



Python



Codename One



C++



Android



C#



Hyperledger Fabric



DynamoDB



MongoDB



CouchDB



LevelDB



MySQL



SQLite



AWS



Linux



Docker



Git



Prometheus



Grafana



Bitcoin



Ethereum



Clean Architecture



Infrastructure as Code



FinTech



CRM



PREVIOUS EXPERIENCE

Founder / Software Developer

Independent Project

2017 - 2018 Saint Petersburg, Russia

- Built a custom form builder (**Ruby on Rails**) for tracking contractor work, enabling creation of dynamic data objects in a relational database.
- Developed a cross-platform native client (**Codename One**, **Java**, **SQLite**) for input and display of multiple data types (text, numbers, photos, map markers) with device-based data capture (camera, geolocation).
- Implemented offline support with automatic synchronization when online.
- Created a remote server (**Java**, **MySQL**, **JSON**, **javax.servlet**) connecting client and database.
- Delivered a working MVP, demonstrating concept and core functionality.

Software Engineer (Java)

PromServiceBank, LLC

2017 - 2018 Saint Petersburg, Russia

Implemented Diasoft's **Flextera** front-office system, reporting modules, and business-process debugging; worked with the back-office system and **Oracle DB**; developed **Java/JavaScript** data handlers, configured the state machine, and managed access rights.

Software Engineer (Android, Java)

Housing Service No. 3

2017 Saint Petersburg, Russia

Developed an **Android application** with a local **SQLite** database for viewing and entering data; implemented synchronization with a remote database via a server using **MySQL**, **Tomcat**, **Jersey**, and **Jsch**, including a photo-capture module with SSH-based upload; later updated the architecture per client request to send data directly from the app to **MySQL** and via **SSH**. Used **FileProvider**, **AsyncTask**, **Fragment**, **ArrayAdapter**, **Retrofit**, **Picasso**, **MySQL-connector**.

Software Engineer (Delphi, C++)

Central Research Institute of Materials

2015 - 2016 Saint Petersburg, Russia

Programmed an **STM32F4Discovery** board to interface between a PC and a spectrograph controller; independently developed the spectrograph software for qualitative and quantitative materials analysis; implemented **multithreading** to support simultaneous operation of three spectrometers; produced full technical documentation.