

Yuriy Bogomolov

Curriculum Vitæ

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Experience

Lead Software Engineer, *EPAM Systems*, Nov 2017 — present

Feb 2020 — present [NDA], *internal staffing system*.

Responsibility As a tech & team leader, I perform team management and project maintenance: code review, deployment, incidents investigation, mentoring & training new developers. My responsibilities include ensuring smooth transition of JavaScript code base to TypeScript; guiding the team towards best functional programming practices, and performing low-level project management. As a software architect, I create architecture design for the next iteration of the product, suitable for handling high load.

Achievements — Performed knowledge transfer from previous key developer in a short time and began operating system processes on daily basis.
— Quickly gained trust of the team as a technical leader.
— Performed role of a software architect & project coordinator after a couple of months working as a key developer.

Tech stack NodeJS, TypeScript, fp-ts, io-ts, TypeORM, PostgreSQL, MongoDB, Apache Kafka; AWS services: DynamoDB, SQS, EventBridge, Lambda/Lambda@Edge.

May 2018 — Mar 2020 [NDA], *modular front-end approach for a banking system*.

Responsibility My team was responsible for providing best practices and establishing a robust and scalable architecture for front-facing system for internal and external bank employees. I created and discussed with business owners architectural approaches to building modular front-end apps, implemented PoC's and delivered actual business value as a part of product development team. I conducted trainings & presentations for customer's employees, wrote articles and consulted colleagues from several different contractor companies.

Achievements — Trained a team of aspiring functional programmers using functional TypeScript.
— Played key roles on two projects: internal front-office system and call center webapp.
— Provided architectural governance for three projects using the same front-end architecture.
— Architectural approach for this project was so successful that the customer decided to spread it onto two new projects — two call center apps for independent departments.

Tech stack Functional TypeScript via fp-ts, io-ts, monocle-ts, newtype-ts; React, Redux and its ecosystem: redux-saga, reselect, recompose; Material UI.

Mar 2018 — May 2018 [NDA], *internal project – mobile application for employees*.

Responsibility As a part-time team leader, I performed code review for my teammates, taken active role in development of business-critical features, managed the CI/CD pipeline of the project and conducted daily Scrum meetings.

Achievements — Discussed with business owner ideas of company development, provided solution approaches and their implementation estimations.
— Managed a development team of five engineers using Scrum-like methodology.
— Implemented smooth transition from AngularJS to React on the front-end.

Tech stack TypeScript, React Native.

Nov 2017 — Mar 2018 [NDA], service for a complicated mortgage housing system.

- Responsibility As a team leader, I managed the development process as a facilitator between Project Manager and development team. I performed decomposition of big business tasks into small ones, conducted code review for my teammates, provided project managers with estimations and was helping them to keep everyone at the same page during the development process, as well as conducted daily Scrum meetings and interviews for the project.
- Achievements — Led a team of two front-end developers with little server-side experience, helped them grow and successfully deliver business features.
— Created, presented and implemented in code architecture for asynchronous conversion of customer's documents from one system to another.
- Tech stack Node.js, sinek (Apache Kafka integration), Bluebird.

CTO, *PharmHub*, Feb 2016 — Nov 2017

Senior JavaScript Developer, *PharmHub*, May 2014 — Feb 2016

May 2014 — Nov 2017 **PharmHub**, B2B system for pharmacies and clinics.

- Responsibility As a CTO, I was involved into discussion of business tasks with the business owner, release planning, setting up a set of tasks for the sprint using *S.M.A.R.T.* approach. I managed the development team and was responsible for the whole plan-develop-test-deploy lifecycle of the product. Among my other tasks was development of PoC and the most critical parts of business functionality, further development of a scalable project architecture and addressing performance issues. I also helped with the establishment of interaction between the development department, technical support and sales department.
- As a developer, I participated in development of a high-loaded web-service for the automation of orders for pharmacies and clinics from the first day of company's life. My daily tasks included: writing client and server code in Node.js + Angular.js, usage of MySQL, PostgreSQL, Redis, MongoDB, RabbitMQ; optimization of long-running queries and product performance in general; database structure and performance optimization. I also actively participated in the formulation and evaluation of tasks and in organization of technical support department from scratch.
- Achievements — Managed a development team of five engineers using Scrum-like methodology.
— Discussed with business owner ideas of company development, provided solution approaches and their implementation estimations.
— Implemented smooth transition from AngularJS to React on the front-end.
— Successfully delivered new features by writing performant and scalable JavaScript code for both Node.js and front-end.
- Links Available at <https://pharmhub.ru> (landing page) and <https://app.pharmhub.ru> (production, closed registration).
- Tech stack Server-side — Node.js, Bluebird, zatanna for PostgreSQL, amqp-lib for RabbitMQ; client-side — AngularJS, angular-material, later — React, Material UI.

Solution Engineer, *Sitecore Ukraine*, Sep 2011 — May 2014

Nov 2011 — May 2014 **Sitecore Support Package Generator**, the tool which collects various data about CMS instance like configuration files, logs, IIS site information, hardware information, etc..

- Responsibility Discussion of the technical requirements with product owner, architectural design and its implementation in code. The project was written solely by me in C# using WPF and deployed via ClickOnce system.
- Achievements — Successfully maintained the development process as the only developer.
- Links Available at [Sitecore Marketplace](#).
- Tech stack .NET via C#, WPF.

Jul 2013 — May 2014	Sitecore Business Optimization Services Accelerators , a set of enhancements for Sitecore Digital Marketing Suite, consisting of several projects aiming to enrich marketer's abilities with new measurement and assessment instruments.
Responsibility	Direct interaction with a Dutch product owner. Project planning for sprints, development and deployment of the finished module. The technological stack was ASP.NET via C# with heavy usage of Sitecore CMS, and jQuery on the frontend.
Achievements	— Created and published to Sitecore marketplace two modules.
Links	Available at Sitecore Marketplace .
Tech stack	Sitecore CMS, .NET via C#, ASP.NET, ASP.NET MVC.
Aug 2012 — May 2014	Sitecore Instance Manager , a key tool for managing the park of Sitecore instances. One can install, locate, maintain, reinstall or delete Sitecore products.
Responsibility	Development of various parts of the product and bug fixing. The project was written in C# and WPF.
Links	Available at GitHub & Sitecore Marketplace
Tech stack	.NET via C#, WPF.

Personal projects

circuit-breaker-monad, TypeScript implementation of Circuit Breaker pattern. Adaptation of *Glue.CircuitBreaker* module from Haskell.

Responsibility	Development & publishing an OSS library.
Link	https://github.com/YBogomolov/circuit-breaker-monad
Tech stack	Functional TypeScript + fp-ts ecosystem.

kleisli-ts, Kleisli arrows with bifunctor IO.

Responsibility	Development & publishing an OSS library.
Link	https://github.com/YBogomolov/kleisli-ts
Tech stack	Functional TypeScript + fp-ts ecosystem.

fetcher-ts, type-safe wrapper around Fetch API.

Responsibility	Development & publishing an OSS library.
Link	https://github.com/YBogomolov/fetcher-ts
Tech stack	Functional TypeScript + fp-ts ecosystem.

alga-ts, algebraic graphs implementation in TypeScript.

Responsibility	Development & publishing an OSS library.
Link	https://github.com/algebraic-graphs/typescript
Tech stack	Functional TypeScript + fp-ts ecosystem.

IzGoroda, a pet project — blog for Moscow travellers club.

Responsibility	I solely created the architectural design of the blog, implemented it in code, deployed into production and performed various DevOps tasks on it.
Links	Until 2017 the project was available at http://www.izgoroda.com . The code is available at https://bitbucket.org/YuriyBogomolov/izgoroda .
Tech stack	Node.js, Twitter Bootstrap, jQuery, MongoDB, Nginx, Varnish.

Educational projects

Twitter **Thread series #MonadicMonday.**

A weekly series of threads with explanations of various topics from functional programming — different useful monads, design patterns, optics, recursion schemes.

<https://twitter.com/hashtag/monadicmonday>

YouTube **Personal channel about functional TypeScript.**

Personal YouTube channel dedicated to workshops and educational videos about functional TypeScript using fp-ts and its ecosystem.

<https://www.youtube.com/channel/UC74WfvCbjsgrvEEhqbD07AQ>

Telegram **Channel “dd if=/dev/stuff of=/dev/tg”.**

Channel with daily audience of 3800+ people. Mostly programming jokes, useful technical & mathematical papers, projects and announcements.

<https://t.me/randomstuffilike>

Education

2011–2014 **Postgraduate education (*unfinished*)**, Vinnytsia National Technical University, Institute of Master's, Post-Graduate and Doctor Degree Studies, Vinnytsia, Ukraine.

Postgraduate paper topic: “Information technology for knowledge extracting from strictly accountable documents in natural languages”.

2010–2011 **Master of sciences**, Vinnytsia National Technical University, Faculty of Information Technologies and Computer Engineering, Department of Computer Sciences, Intellectual Systems Specialization, Vinnytsia, Ukraine.

Master of sciences paper topic: “Intellectual information processing technology using parallel computations”.

Languages

Russian (native), Ukrainian (native), English (advanced, C1⁺).

Work Permits

Ukraine Native citizen; no work permit is required.

Russian Federation Work permit of a highly-skilled professional valid till 5th of March, 2022.