



# Sergey Morkovkin

SOLUTION ARCHITECT & FULL-STACK ENGINEER

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**DIPLOMA:** Bachelor of Information Security in 2006  
in the Institute of Physics and Technology, NTUU «KPI».



- Professional team lead, architect and full-stack engineer with 19 years of experience
- Extensive experience in creating qualitative scalable high-performant web systems
- Solid understanding of modern cryptography and blockchain, keen in AGI, NLP, NN
- Passionate about the resulting product quality and team process automation
- Took both business and technical roles: CM, PM, PO, SA, TL, FE, BE, AE, UI/UX
- Fluent English and knowledge of an American corporate IT sector
- Multiple awards in Ukrainian country-wide programming challenges

## Skills

**Languages:** JavaScript (ES5 / ES6), TypeScript, PHP, C#, Bash, XML/XSL

**Technologies:** NodeJS, HTML5, CSS3, HTTP, AJAX, WebSockets, WebRTC

**Frameworks:** Express, Yii, Vue, React, Angular

**Databases:** MongoDB, MySQL, Redis, Elastic Search, Hadoop

**Methodologies:** Agile (Scrum / Kanban), Waterfall, RUP

**Tooling:** Git, NPM, Composer, Gulp, Webpack, Docker, Bamboo / Jenkins

**Testing:** Jest, NightWatch, Protractor, WebDriver, Jasmine

**Team:** Jira / Trello, Confluence, Slack, GitHub / BitBucket / GitLab

**Graphics:** Photoshop, Illustrator, Sketch, Zeplin / Invision

## Awards

- Multiple conference and meet-up speaker in 2016 - 2017;
- Country-wide winner of Ukrainian Dev Challenge in 2016;
- Country-wide winner of Ukrainian Web Challenge in 2011;
- Leader of Dev Challenge conference in 2017;
- Judge of Ukrainian Dev Challenge in 2016;

## Experience

### System Architect and Lead Engineer

Feb 2018 - Mar 2018 • 2 mos



**Technologies:** NodeJS, MongoDB, ORY Hydra, OAuth 2.0, Docker

QuickBlox is a platform of choice for healthcare businesses worldwide, from large corporates storing millions of records of US health insurance customers to small startups introducing innovative mHealth technologies.

- Performed careful analysis of customer requirements;
- Made a research on the most suitable 3rd party solutions;
- Prepared project development plan with detailed estimates;
- Developed a performant REST API authorization solution;
- Prepared all AWS integration scripts and guidelines;

### System Architect and Team Leader

Aug 2017 - Dec 2017 • 5 mos



**Technologies:** JavaScript, HTML5, CSS3, NodeJS, MongoDB, Angular 2.x, HighCharts

Profusa is a company, creating tissue-integrating biosensors for continuous monitoring of body chemistries. Some of the beneficiaries of Profusa include athletes, soldiers, and diabetics.

- Coordinated work across a team of 3 developers;
- Performed deep analysis of the project and situation;
- Determined all causes of a poor system performance;
- Developed a consequential project enhancement plan;
- Created a working POC as a proof of all my concepts;
- Completely reworked data structured and data flow;
- Algorithmically reduced system response time 50-fold;
- Algorithmically reduced resource consumption 5-fold;

## **System Architect and Team Leader**

Sep 2015 - Aug 2016 • 1 year



**Technologies:** JavaScript, HTML5, CSS3, jQuery, Angular 1.x, Protractor

Presence Learning is the leading provider of online speech and occupational therapy. The company provides its services through an online teletherapy platform.

- Handled all communications with the customer;
- Lead and managed a team of 10 developers;
- Developed most critical architectural decisions;
- Significantly improved application performance;
- Delivered 10 features over 13 releases on time;
- Improved team workflow and implemented CI;

## **Crisis Manager and Team Leader**

Dec 2016 - Feb 2017 • 3 mos



**Technologies:** JavaScript, HTML5, CSS3, React, Python

Twilio is a cloud communications platform as a service (PaaS) company based in San Francisco, California. Twilio allows software developers to programmatically make and receive phone calls, send and receive text messages, and perform other communication functions using its web service APIs.

- Took charge for a project with a breaking deadlines;
- Performed a thorough project and situation analysis;
- Coordinated work across the team of 12 developers;
- Established a healthy relationships with the customer;
- Agreed a one-month delay for the final delivery;
- Restructured and reused existing work to the full;
- Delivered final release on time, saved whole account;

## Full-stack Engineer and System Architect

Jul 2015 - Sep 2015 • 3 mos



**Technologies:** PHP, MySQL, Silex, JavaScript, HTML5, CSS3, Angular 2.x, OAuth 2.0

Softonic.com is a software and app discovery portal. It reaches over 100 million users per month, and at its height of popularity delivered more than 6 million downloads per day.

- Designed and implemented a core architectural solution for authorizing a high traffic;
- Designed and developed ACL (access control list) administrator panel;

## Full-stack Engineer and Contractor

Jan 2014 - Jun 2014 • 6 mos



**Technologies:** NodeJS, JavaScript, HTML5, CSS3, Jasmine, C#, Hadoop, PhantomJS

Skype is a VoIP messenger that enables the world to communicate effortlessly. Millions of individuals and businesses alike use Skype to make free video and voice calls.

- Optimized Skype's JavaScript-based ads-rotation app;
- Eliminated multiple memory leaks for old versions of IE;
- Fixed excessive memory and CPU consumption;
- Created complete test coverage (unit & functional tests);
- Designed and developed a caching error analytics panel;
- Worked on multiple Skype's high-traffic chat bots;