

# Artem Nyzhnyk

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<https://github.com/nmrt>

## Summary

20+ years of experience of full stack (frontend & backend) web software engineering and cloud solutions architecture design with expertise in advanced/rich single page apps and accessible UX + scalable, highly performant, available and maintainable distributed systems with focus on simplicity and code readability.

5+ years of team leadership experience. Lead by example. Good at communication, presentation, and with time management. Thrive in ambiguous environments. Have the power to take responsibility.

Certified by MIT in AI, Blockchain, IoT, Cloud, and Cybersecurity. Bachelor of Computer Science.

Legend of experience tiers: [N] = Novice [I] = Intermediate [E] = Expert

### Development:

- FE: JavaScript [E], TypeScript [E], Angular [E], React [I], WebGL [I].
- BE: Node [E], Java [I], Python [N], Ruby (Rails) [I], PHP [I].
- DBs: Spanner [I], PostgreSQL [I], MySQL [I], MongoDB [I], Redis [I].
- ML/AI [N], AR/VR [N], Solidity (blockchain, smart contracts) [N].

### Solution Architecture:

- GCP (App & Compute Engine, Spanner, Cloud Functions & Storage) [I].
- AWS (EC2, S3, Lambda) [I].
- OOP [E], SOLID [E], data structures [E], algorithms [I].
- RESTful API (CRUD) [E].
- Microservices (RPC) [I].
- Cybersecurity (prevention of XSS, SQL injection, CSRF, etc.) [I].

### DevOps/CI/CD:

- Google's Borg [I], Jenkins [I], Docker [I], Kubernetes [N], Terraform [N].

### Technical Leadership & Engineering Management:

- Lead multiple teams of 5-11 engineers with successful outcomes on time.
- Headed assessment committee for 2 years responsible for promotion of engineers.
- Mentored/taught 13 students in JavaScript, TypeScript, Angular with 75% success rate.
- Conducted dozens of interviews and built successful teams.

### Project Management:

- Successfully planned and monitored SDLC sprints using Scrum and Kanban.
- Tracked team performance using OKR, KPI, SMART.

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## Experience



### Senior Software Engineer

Google

Nov 2022 - Jul 2023 (9 months)

Checks: Google's AI-powered privacy platform.

I worked on the customer facing single page app as full stack engineer using:

- TypeScript, Angular on the frontend.
- Java, C++, gRPC, Protobuf on the backend.

My responsibilities included:

- Technical design and implementation of new features.
- Advanced UI components.
- Dynamic and reusable forms, tables, charts.
- Microservice ETL pipelines.
- Unit testing and code review.
- Performance optimization.
- Profiling and application of better suited data structures, algorithms.
- Fixing issues (debugging).

<https://checks.google.com>



### Lead Software Engineer

Google

Jan 2019 - Feb 2021 (2 years 2 months)

I was involved in architecture design and migration from Angular JS to the latest TS version including dependency graph computation, delegation of tasks, process automation, and mentoring. I have also participated in DevOps (GCP, Jenkins).

Because of the streamlined approach and well coordinated team effort TS migration has been completed faster than estimated and there was more time left to fix issues. I've introduced modifications to existing CI pipeline that reduced test flakiness and build time, simplified release promotion, and were easy to scale by the team.



### Lead Software Engineer

EPAM Systems

Jun 2015 - Feb 2021 (5 years 9 months)

I was a technical lead, solutions architect, and engineering/project manager on multiple projects.

Taught a class of 13 SWEs in JS, ECMAScript, TypeScript, and Angular with high success rate (most of them passed tech interviews afterwards and were assigned to high-tech clients' projects).

Was a head of assessment committee for 2 years responsible for promotion of engineers.

Actively mentored others and advanced my skills.

## **Engineering Manager**

Google

Jul 2018 - Dec 2018 (6 months)

I was managing a distributed team. My duties included communication between the stakeholders and the team, sprint planning, performance and code review, delivery reports and demos, architecture and UX design.

During my assignment the quality of the product has improved significantly, all issues that were targeted for the release were resolved, and new features were delivered on time.

Main tech stack: Python, Flask, JS, Angular, GCP

## **Lead Software Engineer**

MZ

Apr 2018 - Jun 2018 (3 months)

I worked as a key dev on UI in TypeScript and React.

## **Lead Software Engineer**

Ericsson

Feb 2017 - Oct 2017 (9 months)

MediaFirst TV Platform (video on demand and live tv). I was onsite lead and eng manager of 11 remote frontend SWEs. We primarily worked with JS and WebGL. I've participated in architecture and UX design, communicated with POs, delivered POCs (wrote code), reviewed code of others.

Architecture was SOLID. UI was user friendly. Introduced regression testing as a POC allowed us to catch and eliminate unexpected issues. Sprint estimations were accurate and team velocity was stable.

## **Senior Software Engineer**

Google

Jun 2015 - Oct 2016 (1 year 5 months)

Internal testing tool. I was a key full stack dev (Java/JS/Angular) and participated in architecture as well as UX design. Proposed and implemented a clustering (machine learning) POC in Python using SciPy library.

UI became more user friendly, rich with advanced features for power users. Page loading time decreased and responsiveness has improved. Clustering allowed for at-a-glance view of groups of similar test results that increased the speed of human analysis and highlighted standing out differences, usually unexpected issues/bugs or regressions.

## **Software Engineer**

EPAM Systems

Apr 2013 - Oct 2014 (1 year 7 months)

Worked as a key dev, solutions architect on several client projects.

## **Frontend Architect**

## Aer Lingus

Apr 2014 - Aug 2014 (5 months)

Redesign of aerlingus.com. I've participated in solution architecture and led the team of frontend engineers, set up the development environment and automation.

UI/UX became more fluid and responsive and looked attractive by modern standards. Detailed documentation helped to orient new developers, automation enforced code quality and unit test coverage, well thought through architecture made it easy to expand functionality later.

Main tech stack: JS, AngularJS, Node.js



## Software Engineer

SAP

Sep 2013 - Mar 2014 (7 months)

I worked on frontend components like inline editable fields in AngularJS and backend logic in Ruby on Rails. Collaborated on advanced full-text search with facets, Boolean operators, and logical predicates.

As a result UI has become more intuitive and faster to edit and enhanced search supplied power users with condensed results and better filtering options that saved time and money.



## Software Engineer

BMO

Apr 2013 - Aug 2013 (5 months)

Mobile brokerage application. I was responsible for implementation of frontend widgets in JS/HTML5/CSS3 and optimization of existing codebase.

Solid OOP architecture allowed for higher development efficiency. Performance improved and memory leaks were eliminated. Code was fully covered with unit tests.



## Software Engineer

SysIQ, Inc. (acquired by Astound Commerce)

Sep 2012 - Apr 2013 (8 months)

I wrote technical design document with UML diagrams for a shopping cart module, collaborated on my proposal with the team, and developed it using data-binding and multi-touch libraries.

My solution was loosely coupled and allowed easy swapping of backends, and was extensively covered with unit tests.

Main tech stack: JS, AngularJS, HTML5, CSS3

## Software Engineer / Architect

Self-employed

Sep 2009 - Aug 2012 (3 years)

E-commerce:

I've designed the architecture and implemented several online stores for multiple clients using Ruby on Rails and SproutCore, now Ember.js, the first data binding framework in JS. They featured RESTful API with JSON IO.

Firefox plugins:

Architecture design and implementation using XUL (XML, CSS, JS) with access to OS IO, memory and CPU thread management from the browser, without a server.

WordPress plugins:

Design and implementation in PHP, HTML, CSS and JS, with combinatorics and smart thin client architecture.

Game dev:

Tower defense simulation written in JS and WebGL where levels are defined with JSON that is used by the engine to build a world, position and configure turrets and intruders. Animation and collision of each bullet is individually calculated to produce a realistic effect.

<https://github.com/nmrt/tdg>

## **Software Engineer**

NeuroTechnica

Sep 2008 - Aug 2009 (1 year)

I worked on a photo album with semantic search powered by AI.

## **Co-Founder**

Mnemonx

Jul 2008 - Dec 2008 (6 months)

Web development and IT consulting company.



## **Software Engineer**

IT&T Consulting

Mar 2008 - Jul 2008 (5 months)

I developed a 3D photo gallery in ActionScript/Flash.

## **Co-Founder, Software Engineer & Web Designer**

Freelance

2003 - 2008 (5 years)

Social network:

Rich single page app with resizable and draggable components, smooth CSS transitions, inline WYSIWYG editors, fully cross browser compatible, PayPal integration, authentication, custom built CMS, and RSS feed.

CMS on PHP/JS for various customers.

Centralized JS library for cross-browser DOM traversal and manipulation, event management, XHR (AJAX).

JS and CSS compiler for aforementioned library.

Flash animations for multiple clients:

I've designed the assets, created simpler animations visually in the editor and coded more complex key-framed animations and interactivity in ActionScript.

DevOps for all my clients:

I've managed private HTTP servers (Apache, Nginx, Lighttpd), proxies and load balancers; SQL (MySQL, PostgreSQL) and NoSQL (MongoDB, Redis) DBs; FTP and mail servers with TLS; Git repositories; different distributions of Linux (Ubuntu, Debian, etc.) and FreeBSD. Later I switched to the cloud: AWS and Heroku.

## Education



**Admiral Makarov National University of Shipbuilding**

Bachelor's degree, Computer Science

Sep 2005 - Jul 2008

## Licenses & Certifications



**MIT Digital Transformation: From AI and IoT to Cloud, Blockchain and Cybersecurity** - Massachusetts Institute of Technology

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## Skills

Full-Stack Development • Solution Architecture • Technical Leadership • Engineering Management • Project Management • JavaScript • Java • Angular • React • TypeScript