



OLEKSII ZAITSEV

Senior Software Engineer | Full Stack Developer

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PROFILE

Senior Software Engineer with **over 8 years of professional software development experience**. Have strong knowledge of object-oriented design, data structures, and algorithms. Specialise in designing and building large-scale systems in multi-tiered, distributed environments. Proven expertise in developing high-performance applications and scalable solutions in **B2B sectors**, including e-healthcare, advertising, web3, high-load data processing, SaaS, and e-commerce. Committed to clean code practices and **mentoring teams** to achieve outstanding results.

SKILLS

TypeScript | JavaScript | React | Next.js | Redux.js | MobX | NestJS | Node.js | Express.js | OOP | MikroORM | DDD | TypeORM | Mongoose | PostgreSQL | Redis | MongoDB | Angular | AngularJS | HTML | CSS | SCSS | Jest | Jasmine | Mocha | Cypress | Software design and architecture | Docker | RESTful API | GraphQL | AWS | Git | RabbitMQ | Kafka | Microservices | SaaS | Blockchain | Web3 | ASP.NET Core | EF Core | C# | Strapi | ClickHouse

EDUCATION

National Aerospace University (KHAU)
Bachelor's degree, Computer engineering

2013 - 2017
Kharkiv, Ukraine

PROFESSIONAL EXPERIENCE

Geeksters · Senior Software Engineer (Full Stack), Team Lead
Kharkiv, Ukraine, <https://geeksters.io>

Jun 2019 - Aug 2024 · 5 yrs 3 mos
Full-time · Hybrid

- **Product Development and Delivery:** Successfully released and delivered multiple products from scratch, leading the development from initial concept to final deployment.
- **Designing Large-Scale Distributed Systems:**
 - Designed and built large-scale systems in a multi-tiered, distributed environment.
 - Developed a high-load application for the advertising domain, supporting **200,000 concurrent requests per second**, significantly enhancing performance and reliability.
 - Developed and implemented a microservice architecture with inter-service communication, ensuring data consistency and adhering to best practices for fault tolerance.
- **B2B High-Volume Data Service Development:**
 - Developed a service for searching and processing data among hundreds of millions of records in datasets.
 - Integrated artificial intelligence (LLM) and LLM-based AI agents.
 - Integrated full-text search to provide more relevant search and processing results, greatly enhancing data retrieval and analysis capabilities.
- **Architect IAM Service for Web3 infrastructure:** Architect and developed an IAM service for securing, controlling access, and limiting usage based on subscription plans using CU (compute unit per action) access to microservices in the infrastructure for a web3.
- **Architect Multi-Tenant SaaS E-Health Application:**
 - Designed and developed backend for a multi-tenant SaaS e-health application.
 - Equipped the team with development tools to ensure data consistency support, resulting in improved reliability and scalability of the application.
- **Scalable Front-End Components:**
 - Developed scalable and reusable components using React, Angular, MobX, Redux, and other tools for front-end applications.
 - Create a shareable npm library of internal components.
- **Implemented Blockchain Technologies:**
 - Designed and developed multiple services related to NFT, ERC20, and blockchain exploration, enhancing the company's capabilities in blockchain technology.
 - Architect and implemented the backend for the **metaverse**, implementing an **ECS architecture** to facilitate the seamless integration of new mechanics and reducing time-to-market for updates by **30%**.
 - Architect web3 storage based on IPFS and integrated to the internal infrastructure.
- **Backend Development:**

- Developed multiple backends for e-healthcare, advertising, Web3, data processing, SaaS, and e-commerce sectors.
- Developed API gateways.
- Developed BFF.
- **Leadership and Mentorship:**
 - Provided technical and team leadership and mentorship to junior developers, fostering team development and enhancing product quality.
 - Code quality review.
- **Product Strategy Planning:** Led cross-functional teams, created technical documentation, and participated in developing long-term product strategy, ensuring market success.
- **Product Problem Solving:**
 - Identified and resolved performance bottlenecks in existing products, improving efficiency and user experience.
 - Actively participated in discussions on product feature development and strategic direction, contributing to the product roadmap.
 - Analysed and modernised existing solutions with more suitable technologies, resulting in a 25% reduction in operational costs.
- **Automation:** Implemented CI/CD pipelines using AWS and GitHub Actions.

Technologies: TypeScript, JavaScript, NestJS, Node.js, Express.js, Redis, PostgreSQL, C#, ASP.NET Core, Solidity, React, Reselect, Recompose, Redux-Saga, Redux-Form, Angular, Go, AWS, Microservices, Kafka, RabbitMQ, Docker, Jest, MobX, Redux.js, Next.js, GraphQL, RESTful API, MikroORM, TypeORM, Mongoose, Git, OOP, SaaS, HTML, CSS, SCSS, MongoDB, Elasticsearch, Jest, Cypress, AWS SQS/SNS, GitHub, GitHub Actions, ClickHouse

GraydonGo · Software Engineer (Full Stack)
Netherlands

Sep 2019 - Aug 2022 · 3 yrs
Freelance · Remote

- **Feature Development:** Implemented new features and monetization strategies for a **B2B financial platform**.
- **Refactoring and Optimization:** Refactored legacy UI code into React components, improving user experience and performance.
- **Payment Integration:** Integrated **Adyen** support and closely collaborated with the provider's team for seamless interaction.
- **Backend Development:** Developed REST APIs and business logic using C# and ASP.NET Core.

Technologies: React, TypeScript, Formik, ASP.NET Core, EF Core, Quartz.NET, MySQL, HTML, CSS, SCSS

Videal LLC · Software Engineer (Frontend)
Kharkiv, Ukraine, <https://videal.com>

Jan 2018 - Jun 2019 · 1 yr 6 mos
Full-time · On-site

- **UI Enhancement:** Developed customizable and reusable components for an e-commerce website, enhancing the user interface and interaction with the product.
- **Feature Development:** Developed UI components to display and manipulate **graph structures reflecting data workflows**, where each node represents a customizable action.
- **Performance Optimization:** Implemented memoization techniques to optimise UI performance, significantly improving rendering speed and responsiveness.
- **Collaboration:** Collaborated with the backend team to enhance functionality and integration, improving product quality.

Technologies: JavaScript, React, Redux.js, Redux-Forms, Reselect, Recompose, Redux-Saga, AngularJS, HTML, CSS, SCSS, Node.js, PostgreSQL, GraphQL, Ionic

Devart · Software Engineer (Full Stack)
Kharkiv, Ukraine, <https://www.devart.com>

Aug 2016 - Dec 2017 · 1 yr 5 mos
Full-time · On-site

- **UI Component Development:** Created UI components to enhance user experience and interface functionality.
- **Cross-functional Teamwork:** Worked in a cross-functional team of 8 members, including testers, developers, and product owners, to analyse, design, and implement client-oriented features, ensuring high product quality and user satisfaction.
- **Development and Testing:** Developed REST APIs and business logic using C# and ASP.NET MVC, and implemented automated testing strategies covering all layers of the system.
- **Contribution:** Contributed to the development of a web extension for major browsers related to the product.

Technologies: TypeScript, React, AngularJS, C#, ASP.NET MVC, Entity Framework, MSSQL, OOP, HTML, CSS, Git, Jasmine, Mocha, SCSS, SignalR.

CodersTerra · Software Engineer (Frontend)

Kharkiv, Ukraine

Apr 2016 - Aug 2016 · 5 mos

Full-time · On-site

- **Real Estate UI Development:** Created UI components for a real estate website, enhancing user experience and interface functionality.
- **Media Content Platform:** Developed UI components for a platform enabling the buying and selling of media content while ensuring compliance with copyright regulations.

Technologies: AngularJS, Angular, RxJS, HTML, SCSS, Ionic.

Web-Manufacture.net · Software Engineer (Full Stack), JavaScript Lecturer

Kharkiv, Ukraine

Apr 2015 - Apr 2016 · 1 yr 1 mo

Part-time · On-site

- **Training and Mentorship:** Provided instruction to interns and trainees in JavaScript, fostering their professional development and preparing them for real-world projects.
- **IoT Product Development:** Supported the development of IoT products.

Technologies: JavaScript, CSS, HTML, Git, IoT, jQuery, Node.js

LANGUAGES

English - *Upper-intermediate*

German - *Elementary*

Ukrainian - *Native*

Russian - *Native*

HONORS & AWARDS

Participant of "TeslaCamp" hackathon

Kharkiv, Ukraine · 2016

Winner of startup battle in Nikolaev

Nikolaev, Ukraine · 2015

Participant of "48H" hackathon

Kharkiv, Ukraine · 2015

ADDITIONAL INFORMATION

- **Work Authorization:** Authorised to work in Germany without sponsorship.
- **Willingness to Relocate:** Open to relocation within Germany; flexible work arrangements.