

# Oleksandr K.

## Senior Senior Software Engineer

### SUMMARY

- Senior Software Engineer with 7 years of experience building back-end and full-stack web applications. Worked on fintech, healthcare, and SaaS products;
- TypeScript and JavaScript. Experience with Node (Express, Koa, Fastify), React and Vue.js (including Vue 3), Nuxt, and Storybook; PostgreSQL schema design, and analytics-oriented querying.
- Operated containerized infrastructure with CI/CD;
- System design and implementation from the ground up with ownership from architecture to backend, frontend, and infrastructure; Authentication and role-based access control with stateless, security-first implementation details.
- Experience with multi-tenant platforms that require strict data isolation and have to meet GDPR and Swiss data protection requirements;
- Implemented and worked on highly regulated financial software and platforms, including MiCAR-compliant stablecoin platforms, blockchain integrations, as well as banking and SMTP integrations;
- Actively promotes accessibility and compliance standards (WCAG) and regularly participates in local meetups and hackathons. On-site hands-on product demos.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	TypeScript, React, Node.js, JavaScript, PostgreSQL
<b>Programming Languages</b>	JavaScript, Kotlin, PHP, Python, TypeScript
<b>AI &amp; Machine Learning</b>	AI
<b>Mobile Frameworks and Libraries</b>	Crashlytics
<b>Android Libraries and Tools</b>	Kotlin
<b>JavaScript Frameworks</b>	Next.js, Node.js, Nuxt, React, Vue.js
<b>JavaScript Libraries and Tools</b>	Vite
<b>Security</b>	GDPR
<b>Data Analysis and Visualization Technologies</b>	MapBox
<b>Databases &amp; Management Systems / ORM</b>	Firebase, PostgreSQL, SQL
	Storybook

<b>UI Frameworks, Libraries, and Browsers</b>	
<b>Azure Cloud Services</b>	Azure Blockchain, Azure Key Vault
<b>Industry Domain Experience</b>	Blockchain
<b>SDK / API and Integrations</b>	API, Banking API, SOAP API
<b>BlockChain and Decentralized Software</b>	Azure Blockchain
<b>Deployment, CI/CD &amp; Administration</b>	CI/CD
<b>Virtualization, Containers and Orchestration</b>	Docker, Nomad, Terraform
<b>Platforms</b>	Firebase, SAAS
<b>Mail / Network Protocols / Data transfer</b>	IMAP, SMTP
<b>Operating Systems</b>	Linux
<b>Third Party Tools / IDEs / SDK / Services</b>	MailGun, Outlook
<b>Other Technical Skills</b>	Map APIs, Raw SQL, SMTP/IMAP

## WORK EXPERIENCE

### Software Engineer, Healthcare Product

**Duration:** Apr 2025 - Present

**Summary:** Development of a multi-tenant healthcare platform from scratch with full ownership of system architecture, backend, frontend, and infrastructure, focusing on GDPR compliance and secure medical data handling.

#### Responsibilities:

- Designed and built a multi-tenant healthcare platform from scratch, owning system architecture, frontend, backend, and infrastructure;
- Implemented silo-based multi-tenancy to ensure strict data isolation and compliance with GDPR and Swiss data protection requirements in clinical environments;
- Designed and implemented a dynamic game engine using runtime component loading, enabling rapid addition of new cognitive exercises without changes to core routing or logic;
- Built authentication and role-based access with a security-first, stateless design optimized for tenant isolation;
- Designed PostgreSQL schemas and analytics-focused queries to support patient history tracking and progress analysis;
- Deployed and operated the system using containerized infrastructure with per-tenant CI/CD pipelines.



**Technologies:** TypeScript, JavaScript, PostgreSQL, Docker, CI/CD, Containerized Infrastructure.

## Software Engineer, Noumena Digital AG (Decentralized Fintech and Energy Tech)

**Duration:** Feb 2024 - Mar 2025

**Summary:** Contributed to a MiCAR-regulated EUR stablecoin platform, integrating blockchain, banking, and email services, as well as internal AI tooling.

### Responsibilities:

- Developed core components of a MiCAR-regulated EUR stablecoin platform, supporting compliant access to on-chain financial infrastructure;
- Designed and implemented blockchain, banking, and email (SMTP) integrations, enabling reliable interaction between on-chain and off-chain systems;
- Integrated Noumena Protocol Language (NPL) into production workflows, reducing implementation complexity and improving automation;
- Worked closely with the NPL core team, providing implementation-driven feedback that influenced protocol features and developer ergonomics;
- Co-developed an internal, domain-specific AI assistant for the NPL language, enabling sales teams to create tailored product demos significantly faster and reducing demo preparation time from days to hours;
- Authored internal technical documentation and guides, improving onboarding quality and reducing dependency on tribal knowledge;
- Onboarded and supported new engineers, helping establish development patterns and best practices.

**Technologies:** TypeScript, JavaScript, Blockchain Systems, Banking APIs, SMTP, AI Tools.

## Software Engineer, Avobis Group AG

**Duration:** Mar 2022 - Sep 2023

**Summary:** Modernized legacy applications and enhanced frontend infrastructure with a strong focus on performance and scalability.

### Responsibilities:

- Led the migration of two legacy applications from Vue 1/2 to Vue 3, resulting in a significant reduction in bundle size and improved page load performance;
- Led the development of a shared Storybook system, improving onboarding efficiency and reducing cross-team coordination overhead;
- Designed and developed a new feature prototype, contributing to the acquisition of 11 new business clients within the first 6 months;
- Reviewed and optimized the application's map module, reducing monthly Mapbox costs by approximately 20%;
- Mentored a team of 3 engineers through 1:1s, code reviews, task breakdown, and estimation.

**Technologies:** Vue.js, Vue 3, Storybook, JavaScript, Mapbox.

## Software Engineer, Folderly

**Duration:** Oct 2020 - Feb 2022



**Summary:** Worked on an email deliverability platform with real-time features and integrations with major email service providers.

**Responsibilities:**

- Developed core features of an email deliverability platform, including a free email warmup feature that contributed to a 16% increase in sales conversion;
- Designed and implemented integrations with major email providers (Mailgun, Outlook, IONOS), expanding platform integration coverage by 37.5%;
- Introduced real-time data updates using VueFire, increasing user engagement and session duration;
- Designed and built a high-traffic customer dashboard with email and SMS notification workflows;
- Redesigned and extended Firebase and backend API structures to support platform growth.

**Technologies:** JavaScript, Vue.js, VueFire, Firebase, SMTP, Email APIs.

## **Software Engineer, Avtandilovna**

**Duration:** Feb 2019 - Aug 2020

**Summary:** Contributed to an early-stage startup by developing backend features and database structures.

**Responsibilities:**

- Designed and built core product features for an early-stage startup, including messaging, content (blog), and user feedback systems;
- Co-designed backend architecture and APIs, supporting core application workflows;
- Designed PostgreSQL schemas, procedures, and functions to support application data and business logic.

**Technologies:** PostgreSQL, SQL, Backend APIs.

## **EDUCATION**

- **Bachelor's Degree in Cybersecurity & Computer Science**  
Igor Sikorsky Kyiv Polytechnic Institute  
2016 - 2020

