



BOGDAN ISAEV

Senior Full-Stack Developer | Solutions Architect

Location: Saint Petersburg (Relocation / Office / Remote)

Contact: [+7 \(921\) 611-81-65](tel:+79216118165) | redwickel@gmail.com

Telegram: [@redwick](https://t.me/redwick)

Profiles: github.com/redwick | redwick.ru

Summary

An engineer-developer with a deep understanding of how software works "under the hood." My approach is not just about writing code according to specifications, but identifying and solving real business problems. I have experience in reverse engineering, which allows me to design secure systems and work effectively with undocumented code. Expert in applied mathematics for automation and engineering computations. I take full responsibility for the product: from architecture and cost estimation to deploying secure infrastructure.

Core Skills

- **Frontend:** Angular (v2-19), RxJS, TypeScript, Ionic (Mobile), Tailwind CSS, Bootstrap, SCSS.
 - **Backend:** Rust (Axum, Tokio), Scala (Akka/Pekko), NestJS, C# (.NET Core/Framework), Java.
 - **Databases:** PostgreSQL, MongoDB, Oracle, Redis, S3 (MinIO).
 - **DevOps & Cloud:** Kubernetes (K8s), Docker Compose, GitHub Actions, Nginx (Reverse Proxy, SSL).
 - **Security & Auth:** Keycloak SSO, OIDC, VPN (WireGuard/OpenVPN), Firewall.
 - **Engineering Math:** Computational geometry, transformation matrices, vectors, and collision detection algorithms.
 - **Software Security & Reverse:** Binary analysis (x64dbg), software protection development (anti-debugging, logic obfuscation, licensing systems via external DLLs).
 - **Product Ownership:** End-to-end business process analysis, estimation, and implementation of labor automation solutions.
 - **Infrastructure:** Linux Server (Ubuntu), Matrix Synapse, iRedMail, Samba AD DC, NextCloud.
 - **Management:** BPMN modeling, mentoring, and development team leadership.
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Experience

Marine Solutions LLC | Senior Full-Stack Developer

Nov 2024 — Present

Key Projects:

- **B2B Spare Parts Search & Sales Platform:** Designed and implemented a processing system for supplier price lists (1M+ items). Developed a **Rust-based (Axum)** engine providing sub-second search results. Implemented analytics and demand forecasting modules using charts and statistical reports.
- **Comprehensive Dealer Portal for Motorcycle Distributors:** Developed a vehicle lifecycle management system (digital passports, maintenance history), interactive parts catalogs, and real-time stock monitoring.
- **Consulting & Architecture:** Act as an IT change initiator: audit departments, identify "bottlenecks," and implement automation tools that reduce operational time.
- **Internal Ecosystem:** Developed a microservices-based Task Management system and configured a secure corporate network with VPN access.
- **Stack:** Angular, Rust, PostgreSQL, VPN/Networking.

Nautic Rus LLC | Lead / Senior Full-Stack Developer

Feb 2018 — Nov 2024 (6 years 9 months)

- **Engineering Automation:** Developed a C# (.NET/WPF) command library for AutoCAD.
 - **Algorithmics:** Created an intelligent layout system for drawing annotations using collision avoidance and matrix transformations.
 - **Data Extraction:** Implemented parsing and serialization of complex drawing data (blocks, attributes) into JSON/Custom formats for external integration.
 - **Security:** Designed and deployed a custom software licensing system with anti-reverse engineering protection and remote key validation.
 - **Industrial BI:** Built a platform (**Angular/Scala**) for real-time production data visualization (3D models, charts, statistics).
 - **Infrastructure Architecture:** Deployed a self-managed ecosystem of services from scratch (Rocket.Chat, iRedMail, Keycloak, GitLab).
 - **Leadership:** Coordinated the team, conducted system analysis, and deconstructed business requirements into technical tasks.
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Education

Immanuel Kant Baltic Federal University (IKBFU) *Specialist Degree: Mathematics and Applied Computer Science | 2015*

Additional info

- **Languages:** Russian (Native), English (Upper-Intermediate — technical documentation, meetings).
 - **Soft Skills:** Bridging business needs with technical implementation, proactiveness, architectural mindset.
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