KHRUL SERGEI

SENIOR BACKEND DEVELOPER & RESEARCHER

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ABOUT

Hi! I am a developer with over 18 years of experience in data processing, seeking a challenging position to apply expertise in architecting and implementing cutting-edge solutions for engineering challenges. My strong business acumen enables optimized project workflows and the delivery of exceptional products.

SKILLS & OTHER

- **Programming languages**: Java, GoLang, C#, React/Angular JavaScript, Solidity;
- **Message Brokers**: Kafka, RedPanda, RabbitMQ, AWS SQS
- **DBMS**: PostgreSQL, ClickHouse, MongoDB, MS SQL, MySQL.
- **CI/CD**: AWS Ecosystem + Terraform, Docker + Kubernetes, CloudFlare, Jenkins.

PROFESSIONAL EXPERIENCE

Crypto Lead Developer, Firmshift B.V (EU)   2022 - 2025

Main projects: 1) Meme token launchpad for TG mini-app, including an ERC-4337 AO wallet. 2) Omnichain protocol on Cosmos SDK for swaps and bridging in EVM networks. 3) Statistical platform for a multichain DEX.

- Architected and built 7 complex scalable systems within the cryptocurrency, Web3, and related domains, with focus on innovative solutions.
- Enhanced protocol to support gas fee payments in 3 additional destination chains during cross-chain swaps.
- Developed mechanism for acquisition of financial and analytical data from over 20 sources.

Lead Full Stack Developer, Bergmann InfoTech (EU)   2020 - 2022

Main projects: 1) Cyber-sports arena with secure cryptocurrency accounting and real-time telemetry data processing for tournaments dashboards. 2) NFT-marketplace project with layered image generator and landing page with token minting.

- Built over 10 digital distributed platforms ranging from video analytics to finance.
- Prepared interactive stand at the 'Expo 2020' international conference, that recorded 50,000 user interactions.
- Achieved a 60% increase in data search speed from multiple Data sources.

Technical manager, Group of companies "Nsign" (RU)   2017-2020

Main projects: 1) Online video conferencing systems. 2) Highly loaded system for factoring service of large FMCG companies.

- Successfully guided the development of diverse platforms, frequently contributing to significant project wins, contract expansions, and efficiency workers improvements.
- Recruited over 20 developers by upscaling the hiring process and effectively oversaw a team of 25 employees.
- Secured contracts exceeding $10 million in net value for the company.

Software Engineer, Team Lead, HUGHES Satellite Monitoring Center (US, RU)   2010 - 2017

Main projects: 1) Real-time public transit information system. 2) R&D for ARM-based hardware and software for autonomous underwater vehicles.

- Boosted accuracy up to 50% by adapting inertial-based location algorithm with optimized performance on ARM.
- Improved estimation of fire radius by 35%, using modern technologies and algorithmic solutions.
- Led a 3-person intern team to project success, resulting in their full-time hires.

Software Engineer, Content Manager, Private Companies (RU)   2003 – 2004, 2008 - 2010

Main projects: 1) Turnstile-based access control systems. 2) Video streaming and web storage platform.

- A 30% increase in monthly revenue was achieved through the integration of new web portal features.

EDUCATION

- **Tomsk Polytechnic University** (RU), Post-Graduate in Computer Engineering   2014
Degree topic: Satellite monitoring system for autonomous transport
- **Tomsk State University** (RU), Master's degree in Applied Mathematics.   2010

ACHIEVEMENTS & CERTIFIATIONS

- Won personal state R&D grant for 2 years
- Blockchain Fundamentals by ChainLink
- Solidity Smart Contract Guide by BitDegree
- 17 publications in Europe and russian journals
- Advanced Solidity by cryptozombies.io
- Learn Solidity with Space Doggo by BitDegree
- Artificial Intelligence for Robotics by Udacity
- Self-Driving Car Engineer Nanodegree by Udacity