# *Ivan Krechetov*

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## Objective

Solve practical problems with well-crafted software that *actually works.* Fill a Tech Lead or a Senior Software Engineer position. Up to a certain size, can take full responsibility for a project, directly communicating with the customer, and coordinating the team work. Particularly excited about functional programming and advanced type systems.

## Experience

### 04/2020–now SIX Digital Exchange, Zurich

**Senior Software Engineer.** Contribute to the Central Securities Depository subsystem; integrate with SWIFT (ISO 20022/15022), enable sanction screening capabilities, maintain the core data service. Re-implement relevant Corda API for a shorter development feedback loop. Build a scalable event-sourced actor-based financial infrastructure applications platform (Functional Core / Imperative Shell, CQRS). Implement an OpenAPI Spec client code generator.

Tech: Scala Akka Clojure GraphQL XTDB/Datalog Kotlin OpenShift/AKS Kubernetes Corda.

### 08/2018–03/2020 Digitalparking, Dietikon

**Web Developer.** "Full-stack" Web applications development in the domain of on-/off-street car parking: *Parkingpay.ch* and other mobile & desktop apps. The system used by 100K+ drivers, parking zone operators, controllers.

Tech: Kotlin Java jOOQ/PostgreSQL TypeScript React.

### 10/2006–07/2018 XIAG, Zurich/Winterthur

**Tech Lead.** End-to-end planning, implementation, and maintenance of custom software systems by an autonomous dev team. Most significant projects:

- *SwissHotels.com* + dozens of specialized partner sites
- *Trade.stc.ch* – b2b hotel booking
- *Ostjob.ch* with a few forks
- MS Windows-native digital photo prints ordering software for *ifolor AG*

Tech: JavaScript Redux/React Elm Angular Node.js PHP Silex Zend-Framework Nginx PostgreSQL Redis CouchDB Sphinx Linux SaltStack C++/Win32 WTL/ATL GDI+

### 10/2003–09/2005 XIAG, Novosibirsk

**Managing director.** Run the offshore development center of XIAG AG in Russia. Estimate projects, prepare technical specifications, coordinate the resources, ensure the delivery, hire programmers.

### 04/2002–09/2003 Center of Financial Technologies, Novosibirsk

**Programmer.** Work on the application development tools for a company's own banking platform. Improve user experience, speed up routine tasks.
Tech: Oracle Visual-Basic-6 C++/Win32 COM

### 10/2001–03/2002 iNetLab, Novosibirsk

**Programmer.** Build a model editor in the domain of seismic geophysics. Maintain other small applications.
Tech: Java Java2D/Swing C++/Win32 Visual-Basic-5

### 10/2000–09/2001 Auktion24, Novosibirsk

**Programmer.** Take part in building *WeTellYou.com*, a global expert exchange platform with billing and telephony.
Tech: Java Linux Apache-JServ XSLT Oracle Java-RMI

### 03/2000–09/2000 Glance, Zurich

**Junior Programmer.** Build a data model editor & code generator for a company's own ORM; implement an unlimited undo/redo capability. Also maintain an insurance line of business application.
Tech: C++ Win32 MFC Oracle

## Education

### 10/2005–10/2006 University of Twente, Enschede

**PhD associate.** Research topic: Aspect-oriented software architecture design. Quit the PhD program, changed to industry work.

### 2001–2003 Novosibirsk State University

**MSc in Applied Mathematics and Informatics.** Graduated with honors.

### 1996–2001 Novosibirsk State University

**BSc in Mathematics.** Graduated with honors, all "excellent" – top 2% of students.

## Personal info

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|---|---|
| Citizenship | Swiss |
| Languages | English (fluent), Russian (native), German (∼C1 de facto, B1 in 2013) |
| Relevant hobby | Competitive programming in C++ and Rust |

*May 2025*