Ivan Antipin

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EDUCATION

Moscow Aviation Institute

Moscow

Master in computer science and mathematics

Sep. 1998 - Feb. 2005

EXPERIENCE

Nordea Bank

Achievements:

Copenhagen, Denmark

Feb 20015 - Present

Expert Developer, Team Lead

• Leading 2 teams, 3 people each, mentoring junior programmers

- Worked in "hack team" to promote new technologies in department.
- Developed several crucial services from scratch. Participated in more than half of our department projects, sometimes took over leading to streamline project development.
- Developed alternative classes generation for Avro.
- o Developed gRPC based, fault tolerant major trade bus system.
- Developed fault tolerant, limits monitoring system based on kafka and event sourcing pattern.
- Developed React UI for limits monitoring system.
- Drove internal cloud initiative to prepare applications to move to real cloud.
- Run technical demos about new technologies.
- Proposed few initiatives to improve cross team productivity:
 - * Monolith git repository to share code across teams
 - * use gRPC specification for cross team / systems communication.

Tech stack: Java, Kotlin, gRPC, Kafka, Protobuf, Avro, Docker, Cassandra, Redis, Mongo, Oracle, Hashicorp Consul, Vault, c-sharp, ActivePivot, React

Deutsche Bank

Moscow, Russia

Apr 2012 - Nov 2014

Senior Software Engineer

Achievements:

- Developed from scratch several risk management system services.
- o Developed business rules matching engine.

Tech stack: Java, Oracle Coherence

Luxoft

Moscow, Russia

Senior Software Engineer

March 2011 - March 2012

Achievements:

• Developed low latency pricing system in java. It could process few hundred thousands records a second with microseconds latency in single thread. To achieve low latency we used multicast, cache friendly techniques (primitive types), reduced number of system calls to prevent context switches, minimized copying of data.

Tech stack: Java, NIO, Multicast

Deutsche Bank

Moscow, Russia Apr 2005 - Nov 2010

Senior Software Engineer

Achievements:

- Developed from scratch several crucial trading systems.
- Developed order management system based on state machine.
- o Developed declarative testing framework for order management system

Tech stack: Java, JMS

SIDE ACTIVITIES

- Developed trading strategy backtesting/analytical framework in kotlin, c-sharp, python.
- Made AI research for trading strategies using python, pandas, numpy, skikit-learn libs.

Programming Skills

- Languages: Java, Scala, Python, c-sharp, SQL
- Technologies: Docker, Kafka, Mongo, gRPC, Avro, Protobuf, Cassandra, Hashicorp Consul, Vault
- Other things: Unix command line, CS knowledge, git

FEW TIPS THAT I APPLY AT WORK

- Complexity/entropy of any system tend to increase. This is crucial to control it continuously by refactoring and state removal.
- People are like threads in computers: context switches greatly slow downs those productivity, so you shall minimize people sidetracking. Cross teams communication have to be covered by API contracts if possible.
- OOP need to be used carefully and in limited scope, especially by junior programmers, because it is stateful and complex by design.
- Testing: you need to shape your application for easy testing, otherwise people will try to avoid tests writing.