Ivan Antipin

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EDUCATION

- **Moscow Aviation Institute** — Moscow
  Master in computer science and mathematics — *Sep. 1998 – Feb. 2005*

PROFILE

Technology agnostic, passionate developer and experienced technical lead with more that 15 projects completed. I have deep understanding of software development and practical mind. Fluent at designing and implementing systems from scratch.

EMPLOYMENT

- **Nordea Bank** — Copenhagen, Denmark
  Chief IT Developer, Team Lead — *Feb 20015 - Present*

  Achievements:

  - Designed and implemented highly available, horizontally scalable, long term storage with gRPC API.
    Tech stack: Java,Cassandra,gRPC,Kafka,Avro,Docker
  - Reengineered, designed API and led main Nordea trade storage and validation system development.
    Tech stack: Java,Mongo,gRPC,Kafka,Docker
  - Designed, implemented and led in-house replacement of failed 3rd party limit management system.
    Tech stack: Kotlin,Kafka,Docker,REST,OpenApi,React,TypeScript
  - Designed and led implementation of alternative to extremely expensive 3rd party product for complex messaging processing.
    Tech stack: Kotlin,Kafka,Docker,SQLite,REST,OpenAPI,TypeScript,React
  - Reimplemented and led development of API for strategic static data system.
    Tech stack: Kotlin,Kafka,Docker,CQEngine,REST,OpenAPI,TypeScript,React
  - Replaced legacy Nordea major risk engine and speed it up more than x10 times.
    Tech stack: Java,REST,Redis,Oracle
  - Worked across teams to promote best programming practices.
  - Developed interview process pipeline.
  - Influenced gRPC based API development in Nordea as alternative to REST for system-to-system communications.
  - Influenced and promoted Kotlin usage in Nordea as better alternative to Java.

- **Deutsche Bank** — Moscow, Russia
  Senior Software Engineer (AVP) — *Apr 2012 - Nov 2014*

  Achievements:

  - Designed and implemented backend of risk management system.
    Tech stack: Java,Oracle Coherence

- **Luxoft** — Moscow, Russia
  Senior Software Engineer — *March 2011 - March 2012*

  Achievements:

  - Developmed low latency price distribution system with zero GC.

Tech stack: Java,NIO,Multicast

- **Deutsche Bank**   Moscow, Russia
  Senior Software Engineer   *Apr 2005 - Nov 2010*

  Achievements:

  - Designed and implemented order management system with embedded matching engine. Reduced latency and throughput x5 comparing to previous system.
  - Implemented declarative BDD framework (a-la Cucumber style that was non-existent at that time).
  - Reimplemented price distribution component of AutobahnFX.

  Tech stack: Java,JMS,Sockets,Oracle

SIDE ACTIVITIES

- Strategy back-tester for algo trading in kotlin, typescript.

- Telegram bot for technical analyses https://web.telegram.org/z/1072760314 .

- AI research with python, pandas, numpy, scikit-learn libs.

SKILLS

- **Languages**: Kotlin,Java,C-sharp,Typescript,Python,SQL

- **Technologies**: Kafka,Docker,Mongo,gRPC,React,Avro,Protobuf,Cassandra

- **Other**: Algorithms,Computer Science,Machine Learning,Gradle,Bash,Unix,Git

RECOMMENDATIONS

Tam Freestone Bayes
Startup/Fintech CEO/CTO/CIO
Banking IT architecture, engineering and execution leadership; Oxon Cantab

> *Incisive and highly autonomous, Ivan is one of the most potent developers I know. He swiftly gets to the core of a problem, makes sensible, pragmatic technical choices, then produces - and as requirements evolve, rapidly iterates upon - clean, succinct solutions. While he has no difficulty in adopting new technologies when they are the right tool for the job, he defaults to simplicity in his designs. If something needs to be done well, and quickly, then ask Ivan to do it.*

Arasa Velaigam
Head of Subsidiary Accounting at Nordea

> *Ivan is an excellent developer and driver of technical solutions to very complex problems. His communication is efficient and he is able to quickly identify challenges, evaluate alternatives and solutions in an open discussion across varying user groups. I have witnessed Ivan continually develop his technical skills increasing his delivery capabilities and skillset. He is pragmatic and result orientated thus easily able to balance delivery timelines with changing requirements, priorities and infrastructure dependency issues outside his scope.*

Anton Polyakov
Senior Engineering Manager at Google

> *I worked with Ivan and was his direct manager for a couple of years in Nordea Denmark. Ivan is a "10x developer". When I landed at Nordea I realized I needed a "break through" swat team to really move the needle and modernize core of our systems as well as seed the right engineering culture. Ivan was the core and founding member of such team. Capable, fast learning, bright and dedicated effective*

*both at dealing with legacy systems as well as working on a cutting edge projects, with his help we
went from an old PL/SQL core to an in-memory compute engine and from an old Oracle based
warehouse with rigid and hard to evolve structure to a flexible document-based horizontally scalable
data service with streaming API on top. Ivan sets and maintains a very high engineering standards
bar but was capable of doing a well calculated compromises not imp[acting fundamental quality when
we really needed to ship. Don't be misled by Ivan's direct communication style, it comes handy when
you will need to get lots of work done and in no way it hinders Ivan's team player capabilities (he is a
good team player and a capable tech lead)*

My development practices

- Complexity and technical debt management is in the top of my objectives while designing and implementing project. Improper management often leads to a exponential complexity growth to the system functionality.

- While leading a team I try to avoid redundant people sidetracking and context switching to micro tasks as this is very expensive.

- Cross team communication can be greatly improved by extensive usage of systems contracts/APIs, as people are "slow" computers are "fast".

- I prefer functional approach over OOP which is often overused.