

Peter Kalambet

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Summary

- Distributed systems architecture
- Permissioned and permissionless blockchain networks and platforms
- Services based development
- Micro-services, containers, 12 factor application practice and methodology
- Continuous Integration, Continuous Delivery

Work Experience

September 2019 - March 2020

Hach CIB, *CTO*

- **Company infrastructure building and management**
 - *Activities:* Building from the scratch whole IT infrastructure including investors portal and related integrations
- **Digital assets research reports**
 - *Activities:* Co-authoring investors reports about digital assets covering technical side of the technology in scope

June 2017 - August 2019

QIWI Blockchain Technologies (QBT)/FinTech Association, *System Architect*

- **Permissionless blockchain** (Ethereum, Polkadot/Substate, TON) and **Permissioned blockchain** (R3 Corda, Hyperledger Fabric, Masterchain) **networks** projects
 - *Activities:* software architecture/service development. QBT is an EEA and R3 member implementing projects and doing research in the blockchain area for a local market focusing on financial institutions
- **Masterchain project** - Russian Central Bank approved Ethereum fork with cryptographic algorithms approved by the state (GOST algorithms – also based on elliptic curve cryptography)
 - *Activities:* software development and research
- **Research activities and knowledge transfer**
 - *Activities:* technology white/yellow papers review, PoC implementation

Mar 2017 - June 2017

IBM Russia (GBS Digital), *System Architect*

- **Hyperledger Fabric Blockchain pilots** - Hyperledger Fabric pilots and research for Sberbank (the biggest Russian bank)
 - *Activities:* architecture and software development

Apr 2016 - Mar 2017

IP Kalambet Petr Igorevich (TechOps), *System Architect*

- **Architecture and team leadership**, services development of **several projects** - TechOps is an Engineering Division within one of the largest venture funds in New York & Los Angeles

- *Activities:* Team Lead: architecture and development for several projects

Jan 2012 – Apr 2016

IBM Science and Technology Centre (Cloud and Mobile Team), Software Engineer

- **Pivotal Cloud Foundry** – open source PaaS virtualisation engine
 - *Activities:* contribution to the main Cloud Foundry (CF) branch and porting CF on POWER (project IBM Bluemix on POWER)
- **Blockchain POC** for a decentralised notary service
 - *Activities:* architecture design and PoC implementation;
- **IBM Identity Mixer** – privacy-preserving authentication protocol
 - *Activities:* architecture and implementation: creating web-services, building a public demo, integration with Cloud Foundry (IBM Bluemix) as an experimental service in the public catalog
- **Wireless NFC-based mobile payment solution** – pilot project to create wireless card delivery and payment solutions
 - *Activities:* Android mobile development

2009 – 2015

IBM Science and Technology Centre (Rational Team), Software Engineer

- **Rational Design Manager** – Web/Eclipse-based software modelling and design tool
- **Rational Software Architect (Real-time Edition)** - Eclipse-based UML/Topology/BPMN modelling and code-generation environment for Real Time system
- **Rational Rose** – UML modelling tools for software design and code generation

2006 – 2009

Institute for System Programming Russian Academy of Science, Software Engineer

- **Telelogic Tau/DOORS/Synergy** – A set of UML modelling tools for software design, code generation, requirements management, and source control

2001 – 2005

‘Ampersand’ LTD, *Software Developer*

- **Ampersand MultiChrome** – Chromatography automation software
- **Ampersand miniLIMS** - Laboratory Information Management System for chromatographic laboratories

Education

2006 – 2009

Institute for System Programming Russian Academy of Science

Postgraduate

1999 – 2006

Lomonosov Moscow State University (MSU)

M.Sc., Faculty of Computational Mathematics and Cybernetics, System Programming Department