Arslan Rakhmatullin

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Senior Software Engineer

- Over 9 years of software engineering experience in fintech, healthcare, IoT, and energy industries.
- Architected a greenfield fintech product scaling to 10 million users.
- Developed a fraud prevention system safeguarding millions of dollars.
- Engineered a smart meter system processing 96 million data points hourly
- Created a healthcare platform for over 2,000 clinics in the USA

Skills

- Programming languages:
  - Proficient in: Java, Kotlin
  - Working knowledge of: Go, Python, JavaScript, TypeScript
- Databases & Caching: PostgreSQL, Redis
- Cloud & Containerization: Amazon Web Services (AWS), Docker, Kubernetes
- Messaging: Apache Kafka, RabbitMQ
- Frameworks: Spring Framework, Vert.x, OSGi, Talend ETL
- Architecture: Microservices, Event-Driven, Hexagonal
- Methodologies: Scrum, DevOps, Domain-Driven Design (DDD), BDD, TDD
- Tools: Git, GitLab CI/CD, Gatling, Prometheus, Grafana

Work Experience

Senior Software Engineer | Telegram Wallet | Sep 2021 - Present

An International fintech product with over 10 millions of users and significant growth.

- Led the implementation of the best practices of Domain-Driven Design and Event-Driven Architecture, resulting in the product release with complex business rules within 6 months.
- Developed guidelines, project structure, and architectural unit tests to enable the team to adopt new approaches and start development a greenfield project within 2 weeks.
- Collaborated with the compliance team to develop a highly extensible anti-fraud system.
- Technologies: Kotlin, PostgreSQL, Redis, Kubernetes, Kafka, GRPC, Spring Framework, Prometheus, Grafana.

Senior Software Engineer | Grid Company | Mar 2018 - Sep 2021

A digitization project of the energy network (electrical grid) serves 4 million consumers in Tatarstan, including deploying about 3 million smart meters and developing an integration platform.

- Designed a Common Information Model for an integration platform that adhered to the industrial standard IEC 61968, enabling the integration of ADMS, MDM, HES, and Billing systems from different vendors.
- Developed core integration service enabling processing of 96 million distribution network data parameters per hour.
- Created a mathematical system optimization tool, optimizing power transmission parameters and reducing decision-making time from 2 weeks to 1 day.
- Designed an analytical system to improve inefficiency in incident processing using new data sources, reducing the average incident processing time from 30 to 7 minutes for around 7000 incidents per month.
- Technologies: Java, PostgreSQL, Redis, RabbitMQ, OSGi, Talend ETL, Kubernetes.

Software Engineer | Orthosnap | Feb 2017 - Mar 2018

Multi-tenant medical service used by over 2,000 clinics in daily work in the USA.

- Created mesh improvement capability for patient 3D scan STL files, allowing their use in a mobile medical application.
- Designed re-meshing pipelines using S3, Amazon SQS, and Lambda to reduce processing costs.

- Refactored the test framework, which roughly halved the boilerplate in integration tests.
- Improved integration test speed by dynamically launching test stands, which reduced pipeline time from 40 to 8 minutes.
- Technologies: Java, PostgreSQL, Vert.x, Amazon Web Services, Docker, New Relic

Junior Software Developer | Teplocontrol Manufacturing | Jan 2015 - Feb 2017

Head End Systems for measuring instruments produced by the company.

- Developed a DD driver for an explosion-proof pressure gauge's HART modem using the DDL programming language.
- Implemented a link layer protocol with Hamming code error correction, enabling about 30% longer communication lines with devices.
- Created a trunking network adapter to transfer data to the MQTT bus, allowing it to collect measurements from sensors in an 8000 km^2 oil field.
- Collaborated with a metrologist to implement methods for detecting, correcting, and filtering measurement errors in a petroleum and LPG measuring system.
- Technologies: Go, MongoDB, MQTT, Modbus, DDL

Education

- MSc, Technical University Ilmenau, Germany.
- BSc, Technical University of Kazan, Russia.

Other

- Languages:
    - English - full professional proficiency.
    - German - limited working proficiency.
- Participated in inter-university contests and the ACM ICPC World Championship as a part of the university team.
- Remote or hybrid work is preferable.