Rafael Bagmanov

E-mail: <u>b.....v@gmail.com</u> Address: New York, NY, 11222 Phone: +1-(718)-..........

Social: <u>github.com/bugzmanov</u> | <u>linkedin.com/in/bugzmanov</u> | <u>twitter.com/bugzmanov</u>

Summary

Principal Software Engineer & Tech Lead with a track record of architecting and optimizing **large-scale distributed systems** handling **petabytes of data** daily. Experienced in leading cross-functional teams, building scalable infrastructure, and optimizing system performance. Strong expertise in multithreading, performance tuning, functional programming and data modeling.

Interests: big data distributed systems functional programming mechanical sympathy

Work experience

Apple Inc

Nov 2020 - Current

Senior Software Engineer (ICT 4)

 Developing and optimizing the pricing logic and rules engine that drives Apple Store operations

scala java apache cassandra oracle db apache kafka openapi rust

Integral Ad Science

Feb 2015 - Aug 2020

Principal software engineer

- Led cross-team re-platforming efforts in core architecture and design.
- Led development and design of near real-time platform and streaming applications: fraud detection, user exposure tracking & engagement optimization, campaign monitoring

scala java cats apache spark apache flink apache kafka aerospike graphite aws

Pellucid Analytics

Oct 2014 - Feb 2015

Senior scala developer

- Designed and developed backend services for financial analytics tools.
- Optimized data modeling for complex financial reports.

scala scalaz apache cassandra play! framework datomic

Grid Dynamics

Feb 2012 - Oct 2014

Senior software engineer

- Led development of <u>streaming data platform</u> using open source solutions
- Led development and design of <u>CI/CD</u> platform for release engineering
- Participated in a project of porting apache storm 0.9.0 from clojure to java

scala akka apache kafka apache storm clojure apache cassandra

Informatica

Sep 2011 - Feb 2012

Senior software engineer

- Developed and enhanced components of the **Data Master Management Solution**
- Led code quality initiatives, implementing best practices for unit testing and CI/CD pipelines

java ejb java ee jsf

(continue on the next page)

Kentor

Nov 2009 - Sep 2011

Senior software engineer

- Designed and developed an integrated messaging solution for mobile and web, enabling **near real-time communication** between drivers
- Contributed to a web-based **back-office application** for managing customer contracts and registrations for **Yota**

java gwt hibernate spring framework rabbitmq oracle db

Exigen Services

Feb 2008 - Nov 2009

Software engineer

- **Developed and maintained** an **EJB-based platform** for **multi-channel customer interactions**, supporting web, mobile, and call center services for a major European telecom provider.
- Implemented and optimized back-end services on **BEA WebLogic**, improving system reliability and maintainability
- Contributed to service-oriented architecture (SOA) development, enabling interoperability across multiple business systems

java bea weblogic hibernate spring framework service oriented architecture ejb

Skills

Programming Languages: Scala, Java, Rust, Clojure, Kotlin, JavaScript/TypeScript

Distributed Systems & Streaming: Apache Kafka, Apache Flink, Apache Spark, Apache Hadoop, Apache Storm

Databases & Storage: vast experience with relational (MySQL, Oracle, PostgreSQL, DB2) and NoSQL (Apache Cassandra, Aerospike, Redis, Elasticsearch, DynamoDB) databases

Cloud & DevOps: AWS (EC2, S3, MSK, Lambda, CloudFormation), Kubernetes, Docker, Terraform **Software Architecture:** Microservices, Event-Driven Systems, Functional Programming, Type-Driven Development

Performance & Optimization: JVM Tuning, Multithreading, Memory Management, High-Throughput Systems **Leadership & Collaboration:** Technical Mentorship, Code Reviews, System Design, Cross-Functional Collaboration

Education & Certificates

Education: Ufa State Petroleum Technical University (Russia). Specialist of "Computing machinery and automated systems software". Master's Level Equivalent, honor diploma.

Certifications: Sun Certified Java Programmer (SCJP), Sun Certified Web Components Developer (SCWCD), Sun Certified Web Services Developer (SCWSD)

Accomplishments & Hobbies

Publications: Writing NES Emulator In Rust, Critical Analysis of "Clean Code" by R.C. Martin

Projects on github: https://github.com/bugzmanov

Public speaking: Using scala in an enterprise environment, Scaladev 2013 (in Russian)