Anton S. Kraievoy

CURRICULUM VITAE

Aim: *Scala Developer position, high load and/or big data applications*

Personal information

- Birth date: 09/18/1982
- Experience: Scala - 4 years; Java - 7 years; JavaScript - 2 years
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Education / Academia

- 2005 M.S. at specialty "Business decision-making systems", Institute of Applied System Analysis of NTUU "KPI"
- Areas of interest: complex networks, DHT protocols, distributed data storage, resilience of distributed systems
- Ph.D. research, now dormant: improve availability of distributed system by analysis of structure graph eigenvalues - published results available upon request
- coursera: Reactive Programming completed with score of 82.5%

Languages

- English - First Certificate in English, Level 2 (C1) as of February 2015, Cambridge English Language Assessment;
- Russian - native speaker
- Polish - Level B1

Legend: **currently being used**, used recently, *not used recently*, *basic knowledge*

Skills

- Functional programming: **Scala**, *Javascript + underscore.js*, *Haskell*
- Object-oriented programming: **BPMN2**, UML, *GoF/J2EE patterns*
- Algorithm design: **estimating and benchmarking performance**, profiling for CPU/IO/GC bottlenecks
- Test-driven development: **unit testing**, mock-objects, refactoring
- Database design: **schema design**, schema version migrations
- Continuous delivery: **Docker**, **simple sbt builds**, *multi-module maven/ant builds*, *maven/ivy artifact caches*
- Source control: **git**, **git flow**, *subversion 1.6*, team branch isolation/hardening
- Security: *code signing*, *certificate chaining*, *secure hashing*, *obfuscation*
- Web design: *HTML 5, CSS 3*
- Web applications: *Angular.js*, D3.js, *jQuery 1.9*, *jQuery UI*, *Kendo UI*, *JavaScript DOM/Event APIs*

Scala frameworks

- Core: collections, deferred evaluation, implicits, manifests/type tags, reflection, *combinator parsing*, *Software Transactional Memory*
- Persistence: **ScalikeJDBC**, Anorm (against Postgres and RedShift), *Salat/Casbah(against MongoDB)*
- Web: **Unfiltered**, Play Framework 2.3, Spray
- Messaging: Akka 2.3, *Play Iteratees/Enumeratees*
- Big Data: *Spark*, ***Spark Streaming***

Java frameworks

- Core: collections, regex, concurrency, generics, reflection
- User Interface: *AWT/Swing*, *Java2D, Prefuse, JFree Chart*
- Reporting: *Apache POI, Jasper Reports*
- Persistence: *commons-dbutils*, *JPA/Hibernate*, *bare JDBC*
- Web: *Spring-MVC*, *Servlets, JSP*, *Struts*
- Messaging: **Apache Kafka**, *Apache Camel*, *JMS*
- Interop: ReST, Google Client, *Jackson*, *Protobuf*
- Dependency injection: **Guice**, *Spring*, *picoContainer*

Tools

- Operating Systems: **Debian/Ubuntu Linux**, *CentOS Linux*, *Windows*
- Platforms: **Scala 2.11**, **Java 8**, *Java 5/6*, *JavaScript 1.5*
- Development tools: **IntelliJ Idea**, WireShark, *Chrome Dev Tools*, *Eclipse*
- Build tools: **TeamCity**, **sbt 0.13**, *npm*, *ant 1.7*, maven, *Jenkins*
- Deployment platforms: **Docker**, **Kubernetes**, **AWS EC2**, Play 2.2, Tomcat, *Jetty*, *Web Start*, *Applets*
- Databases: **PostgreSQL**, **RedShift**, **Impala**, *BigQuery*, CouchDB, MongoDB, H2, *Oracle 9i*

Employment History

Time	Employer/Project Domain	Responsibilities/Technologies
2015.10 - current	**Captify (same projects/team as previously - direct hire intead of outsourcing)**	**Architect: code reviews and solution prototyping, firefighting support**
	Supporting migration from RefShift to either Impala or BigQuery Extracting reusable scala code micromodules from monolithic git repo Extracting microservices and running those via Docker/Kubernetes Documenting system breakdown as series of BPMN diagrams Improving component, bounded context and team structuring	BigQuery, Impala, Docker and Kubernetes, Spark Streaming, TeamCity, Artifactory, Amazon EC2/ECS ECR
2013.11 - 2015.10	**Innovecs**	**Team/Tech Lead: code reviews and improvements, versioning/deployment, feature specifications, backlogs grooming**
	C3 - Ad Ops planning/reporting/content-management frontend; ETL/DB backends for trafficking reports and billing	Scala 2.10, Play 2.2, Akka 2.3, PostgreSQL 9.3, RedShift Angular.js, D3.js
2012.05 - 2013.10	**Strikead**	**Scala Backend Dev / Team Lead: feature development and specifications, versioning/deployment**
	Fusion 2 - ad tech planning/reporting app (trading desk)	Scala, Play 2.0, MongoDB, Google Bigquery, Hadoop/Pig Javascript, Kendo UI
2011.05 - 2012.05	**Globallogic**	**Senior Java Developer: feature development, integration testing, branch isolation**
	BCS: complementary modules to Telcordia broadband charging system; Enterprise GUI: web application to manage corporate accounts within BCS;	Spring, JBoss, Oracle TimesTen, Fitnesse, Ant Jetty, SmartGWT, Axis
2010.10 - 2011.02	**EPAM**	**Trainer (part-time)**
	Java Crash Course: developing and performing Educational Course for Java Juniors	VNC + Freemind + ELW (see below)
2009.09 - 2011.05	**Dept. of Math. Methods of System Analysis; IASA, NTUU KPI**	**Assistant (full-time): lecturing Computer Networks / Software Engineering courses**
	ELW: design, development, maintenance of simple docserver with approval/scoring functions	Spring-MVC/Velocity, lightweight NOSQL-ish JSON-based file persistence layer
	holonet: design and development of a platform for statistical and discrete-event simulation of complex networks and DHT protocols, genetic/spectral optimizations of networks with up to 4k nodes (code snapshot is available upon request);	Swing, Spring, JDBC over H2;
2007.01 - 2011.04	**codebistro.com**	**Project technical leader (telecommute, part-time): feature development**
	XRFiles/XRSend: development and mainenance of X-Ray/MRT peer-review web-application;	JQuery/REST, Spring-MVC/Velocity, JPA over H2;
	Glider/BQuick-NG: development and mainenance of successive versions of BQuick: striped streaming, interleaved asynchronous JSON/binary network protocols;	JQuery/REST, Spring-MVC+Velocity;

	BProof: maintenance of pre-publishing review/approve web-application;	Swing, Google Protobuf, Spring-MVC+Velocity;
	BQuick transfer manager: design, development, maintenance of distributed media streaming application;	Servlets, picoContainer, xFire, HttpClient, lots of handcrafted middleware (own remoting/persistence, webstart/singleinstance analogs);
2006.06 - 2006.10	**Incom**	**Java developer: feature development, build automation**
	Kyivstar SelfCare Portal: bugfixing, build management (continuous integration, automatic test platform deployment).	J2SE 1.5, Struts 1.0.3, Oracle 9i, Sun Solaris, CruiseControl, Ant, XSL.
	Resource Manager: simple Swing database front-end, which was (the db) integrated with CruiseControl SourceControl interface. 100% adopted by the team.	Swing + JDBC over Oracle 9i
2004.01 - 2006.06	**Vested Development, Inc.**	**Java Developer: managing requirements/scope, feature development, build automation**
	Lighthouse project management portal: Implementation of several modules in distributed international project. Reasonable contribution to build management process and overall code quality and stability.	J2EE 1.3 (Servlets, JSP, JetSpeed, Turbine, EJB), Oracle 9i, Linux, CruiseControl, Jakarta POI, Jasper Reports.
	Lighthouse PM portal extensions: Estimations of project schedule, costs and risks, creation of design proposals, successfully completed implementation and QA phases.	Same as above
	Lighthouse Requirement Management module: rewrite of a module previously performed by India-based ISV subcontractor, heavy use of AJAX and POI, successful presale, development, integration and QA phases.	Same as above
	Lighthouse Testing module: successful presale and implementation design phases.	Same as above
	Lighthouse Custom Reporting module: Led a team of 3 developers during prototype phase, was responsible for estimations, requirements scope and technical solutions. Successfully completed the phase.	Same as above
2004.05 - 2004.01	**Ciklum Ltd.**	**Java Developer: feature development, code maintenance**
	InfoSuite (ExcelData): Design, development and bug fixing of modules used as replacements for several old modules.	J2SE 1.4, Swing, custom DOM-based XML API
2004.02 - 2004.05	**rentacoder**	**Java/Javascript Developer:**
	TOM: Wrapping socket stream based communication protocol into web service in an existing software project.	J2SE 1.4, JAXP(DOM/SAX), AXIS, Swing, Java 2D, Java Web Start
	Chord: Redesign and extension of simulation system used to validate/profile peering network protocols.	Core Java 2
	SixSigma: Math core of portal system that was to be used for statistical processing and analysis of business data.	Core Java 2
	CakeFight: Design and development of Swing-based game Applet with dynamic classloaders.	Swing + Applets
2003.01 - 2004.02	**Academic research**	**Java Developer: development of math-intensive java application**
	Network traffic engineering software package with temporal network structure synthesis capability. Full development cycle w/o long-term maintenance, but with extensive profiling for performance.	J2SE 1.3.1, Swing, JUnit, JDBC/ODBC bridge, Paradox DB
2003.07 - 2003.01	**Dev Zero G Ltd.**	**Java Developer: feature development, code maintenance**
	PrintSure: Pre-flight checking solution. Development/unit-testing.	J2SE 1.3.1, Java Servlets/Applets, Struts,

Java ImageIO, PostgreSQL.

SiqoCMS: JSP-Based Content Management System. Development/unit-testing/maintenance.	Same as above - ImageIO
FlatPlan: JSP-Based preprint management solution. Development/unit-testing/maintenance.	Same as above - ImageIO