

Anton Kraieviy: Curriculum Vitae

Aim: Site Reliability Engineer

Contacts

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Education / Academia

- [WorldQuant University - Data Science](#) (plus [ML part](#)), 2021
- [Scala Principles of Reactive Programming](#), 2014
- 2005 M.Sc. «[Systems and Methods of Decision-Making](#)», Institute of Applied System Analysis of NTUU «Kyiv Polytechnic Institute», Ukraine

Soft Skills

- Work for the product: track cost implications and business impact for changes and incidents
- Play for the team: balance autonomy and efficiency, manage interrupts and long-term backlogs
- Manage delivery: focus on blockers on critical path, engage owners, set example for execution and code quality
- Strive for simplicity: best architecture forces fewest lock-ins, good design is invisible

Hard Skills

Styles: **complex tasks within last year**, moderate complexity within last year, *not used for at least a year*

- Infrastructure: **Terraform, Docker, Kubernetes, Kustomize**, Helm
- Cloud Service Providers: **Amazon Web Services, Google Compute Platform, Microsoft Azure**, OpenShift
- Continuous Delivery: GitHub Actions, Azure DevOps Pipelines, *CircleCI, TeamCity, Jenkins*
- Observability: Prometheus, Grafana, Kibana, strace, *Sentry, NewRelic, Zabbix, Graylog*
- Algorithm Design: **pandas, numpy/bottleneck/numba**, [HackerRank](#), [CodeJam](#), [TopCoder](#)
- System Architecture: BPMN 2, UML, *GoF/J2EE patterns*
- Data stores: **Postgresql**, BigQuery, *Redis, Hadoop, RedShift*
- Event Streaming: **Apache Kafka**, *ReactiveX, Spark Streaming, Flask*
- Automation Scripting: **bash + coreutils, jq, JMESPath/gjson**, make invoke
- Test-driven Development: **unit testing, mock-objects**, behaviour-driven tests
- Object-oriented Programming: **python**, go, *Java, rust*
- Functional Programming: *Scala, lodash/d3 (javascript), Haskell*
- Build Automation: **Please** (similar to Bazel, please see [here](#)), poetry, *sbt, gradle, maven, ant*
- Source control: **git, git flow**, *subversion*
- Security: *checkov, terraform-compliance, Contrast (dynamic vuln scanning), code obfuscation*

Personal Info

Areas of interest: portfolio construction, timeseries prediction, statistical analysis and inference, [complex networks](#)

Preferred tools: Ubuntu/XFCE, IntelliJ, zsh, tmux, silversearch, fzf

Languages: English - C1, 2015; Russian, Ukrainian - native

Employment History

Time	Employer	Position
	Technologies	Project Domain
current - Sept 2021	Thought Machine	Site Reliability Engineer
	Opsgenie, Terraform, Bigquery	Took part in implementation of long-term summary reporting pipeline for opsgenie alert and incident data. Ported existing manual opsgenie policy setup to declarative

terraform.

Google Cloud, Amazon Web Services

Led a project to implement cross-cloud connectivity solution with extra detail to availability SLAs.

Microsoft Azure, Terraform, Please

Led a project to make existing product provisioning automation support a new cloud service provider.

AWS CodeBuild, AWS CodePipelines, Terraform, Please

Led a project to automate provisioning for a dedicated PCI DSS-compliant environment.

AWS EKS, kubernetes autoscaler, AWS VPC CNI plugin, external-dns, cert-manager

Took part in several smaller projects to improve cost efficiency and stability of product workloads for both EKS and GKE. Typical day-one operations for spot interruptions and mass node restarts for k8s version upgrades.

ginkgo, gomock, prometheus, trivy

Improved coverage for vulnerability scanning, service-level metrics, and alerting. Led tech response for internal incidents, with reasonable success rate; took part in production on-call.

Aug 2021

- Babylon Health - Developer Experience

Senior Software Engineer

Aug 2019

python, shell, rust, kubernetes
Jenkins, Sentry, NewRelic, Slack API

Extend declarative [infra-as-code stack](#) with components to model/automate configuration for Sentry/NewRelic microservice monitoring integrations

Contrast Security
gradle, docker-compose, java/spring-webmvc, python/flask, hugo

Prototype/test/document [Contrast Security](#) vulnerability scanning in multiple existing projects

postgres, go, make, terraform
grafana, jenkins, AWS (S3/IAM)

Improve microservice deployment monitoring and auditability

Azure DevOps pipelines, Spinnaker
python/flask, github/jira APIs, docker, shell

Battle-test/document/maintain next-generation Continuous Delivery/Compliance platform

Azure DevOps pipelines
terraform, shell, AWS (EC2/CloudFormation) platform

Extend [infrastructure-as-code provisioning](#) for Continuous Delivery/Compliance

Aug 2019

- Captify Media

Software Architect + Technical Lead + Site Reliability Coach

Oct 2015

Kafka+Spark Streaming
Cloudera+Mesos+Singularity

Switching Spark pipelines from Batch to Structured Streaming

Docker+Kubernetes,
Python+Teamcity+Amazon Services
Graylog+InfluxDB+Grafana

Production health-checks and monitoring
Extracting microservices, implementing CI/CD workflows
Documenting system architecture as series of BPMN diagrams

Unfiltered, Spark

20+ micro-modules: blocks of search retargeting pipeline + shared utility libraries

Impala, Postgres, Amazon RedShift

Migration of analytic workflows from RedShift to Impala

Play!, Spark, Guice

Enacting Dependency Injection in Play! and Spark modules

Oct 2015

- Innovecs, for Captify Media

Technical Lead + Team Lead

Nov 2013

Scala 2.10, Play 2.2, Akka 2.3, Angular.js,
D3.js

C3 - Ad Ops planning/reporting/content-management frontend

Spark 1.6, PostgreSQL 9.3,
Amazon RedShift

ETL/DB backends for ad placement planning, reports and billing

Oct 2013

- StrikeAd

Scala Backend Developer -> Team Lead

May 2012

Google BigQuery, Hadoop/Pig

Fusion 2 Slicer - Aggregation/Reporting Web Application

Scala, Play 2.0, MongoDB, Javascript,
Kendo UI

Fusion 2 - AdTech Trading Desk Web Application

May 2012

- Globallogic

Senior Java Developer

May 2011

Jetty, SmartGWT, Axis

Enterprise GUI: web application to manage corporate accounts for Telcordia Broadband Charging System

Spring, JBoss, Oracle TimesTen, Fitness,
Ant

Telcordia Broadband Charging System: feature development, integration testing, team branch isolation

Feb 2011 - Oct 2010	EPAM	Tutor, part-time
	VNC + Freemind + ELW (see below)	Developing and conducting crash course for junior Java developers
May 2011 - Sept 2009	Department of Math Methods of System Analysis; NTUU "Kyiv Polytechnic Institute"	Assistant: Computer Networks / Software Engineering courses
	Spring-MVC/Velocity, CoachDB	ELW : design, development, maintenance of courseware webapp with approval/scoring functions
	Swing, Spring, JDBC, H2	holonet : design and development of a platform for statistical and discrete-event simulation of complex networks and DHT protocols genetic/spectral optimizations of overlay networks up to 4k nodes
Apr 2011 - Jan 2007	codebistro.com	Project technical leader (remote)
	JQuery, Spring-MVC, Velocity, JPA, H2	XRFiles/XRSend: development and maintenance of X-Ray/MRT peer-review web-application
	JQuery, Spring-MVC, Velocity	Glider/BQuick-NG: development and maintenance of successive versions of BQuick: striped streaming, interleaved asynchronous JSON/binary network protocols
	Swing, Google Protobuf, Spring-MVC, Velocity	BProof: maintenance of pre-publishing review/approve web-application
	Servlets, picoContainer, xFire, HttpClient	BQuick transfer manager: design, development, maintenance of distributed media streaming application
Oct 2006 - Jun 2006	Incom	Java Developer
	J2SE 1.5, Struts, Ant, XSLT	Kyivstar SelfCare Portal: bugfixes, continuous integration/deployment
	Swing, JDBC, Oracle 9i, CruiseControl	Resource Manager: simple Swing database front-end, database integrated with CruiseControl SourceControl interface to trigger builds by changes
Jun 2006 - Jan 2005	Vested Development, Inc.	Java Developer
	J2EE 1.3 (Servlets, JSP, EJB, JetSpeed, Turbine), Oracle 9i, Linux, CruiseControl	Lighthouse Testing module: successful presale and implementation design phases
	Same	Lighthouse PM portal extensions: Estimations of project schedule, costs and risks, creation of design proposals, successfully completed implementation and QA phases
	Same	Lighthouse project management portal: Implementation of several modules in distributed international project. Reasonable contribution to build management process and overall code quality and stability.
	Same + Jasper Reports	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 + Jakarta POI	Lighthouse Requirement Management module: rewrite of a module previously developed by India-based ISV subcontractor, heavy use of AJAX and POI, successful presale, development, integration and QA phases
Jan 2005 - May 2004	Ciklum Ltd, for ExcelData	Java Developer
	J2SE 1.4, Swing, custom DOM-based XML API	InfoSuite: Design, development and bug fixing of several replacement modules for in-house ERP system.
May 2004 - Feb 2004	rentacoder	Java/Javascript Developer
	J2SE 1.4, JAXP(DOM/SAX), AXIS, Swing, Java 2D, Java Web Start	TOM: Wrapping socket stream based communication protocol into web service in an existing software project.
	Core Java 2	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
	Swing + Applets	CakeFight: Design and development of Swing-based game Applet with dynamic classloaders
Feb 2004 - Jan 2004	Academic research	Java Developer
	J2SE 1.3.1, Swing, JUnit, JDBC/ODBC bridge, Paradox DB	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
Jan 2004 - Jul 2003	Dev Zero G Ltd.	Java Developer
	J2SE 1.3.1, Java Servlets/Applets, Struts, Java ImageIO, PostgreSQL	SiqoCMS: JSP-Based Content Management System. Development/unit-testing/maintenance
	Same	FlatPlan: JSP-Based preprint management solution. Development/unit-testing/maintenance
	Same	PrintSure: Pre-flight checking solution. Development/unit-testing