Anton Kraievyi: 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, AWS CodePipelines, 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**
- 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), **make**, python invoke, 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 - Aug 2019	**Babylon Health - Developer Experience**	**Senior Software Engineer**
	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)	Extend infrastructure-as-code provisioning for Continuous Delivery/Compliance platform
Aug 2019 - Oct 2015	**Captify Media**	**Software Architect + Technical Lead + Site Reliability Coach**
	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 - Nov 2013	**Innovecs, for Captify Media**	**Technical Lead + Team Lead**
	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 - May 2012	**StrikeAd**	**Scala Backend Developer -> Team Lead**
	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 - May 2011	**Globallogic**	**Senior Java Developer**
	Jetty, SmartGWT, Axis	Enterprise GUI: web application to manage corporate accounts for Telcordia Broadband Charging System
	Spring, JBoss, Oracle TimesTen, Fitnesse, Ant	Telcordia Broadband Charging System: feature development, integration testing, team branch isolation

May 2011 - Sept 2009	Department of Math Methods of System Analysis; NTUU "Kyiv Polytechnic Institute"	Assistant: Computer Networks / Software Engineering courses
	VNC + Freemind + ELW (see below)	Developing and conducting crash course for junior Java developers, arranged with EPAM Systems
	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 mainenance 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: maintenance, extending 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, Jasper Reports), Oracle 9i, Linux, CruiseControl	Lighthouse Project Management portal: implementation design for Testing module, design/implementation/QA for main Project Management module. Led cross-vendor SVN repository replication efforts.
	Same + Jakarta POI, AJAX	Lighthouse Custom Reporting module: led a team of 3 developers, covering estimations, requirement review and implementation/QA. Lighthouse Requirement Management Module: a partial rewrite of existing implementation, featuring dynamic AJAX-based web interface.
Jan 2005 - May 2004	**Ciklum Ltd, for ExcelData**	**Java Developer**
	J2SE 1.4, Swing, custom DOM-based XML API	InfoSuite: Design, development and maintenance 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. Chord: Redesign and extend a simulation of peering network protocols SixSigma: Math core of portal system to be used for statistical analysis of business data
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