

Anton Kraieviy: Curriculum Vitae

Aim: Site Reliability Engineer

Personal information

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Education / Academia

Areas of interest: portfolio construction, Kelly sizing, complex networks, decentralised protocols and availability.

- [WorldQuant University - Data Science](#) (plus [ML part](#)), 2021
- [Principles of Reactive Programming](#), 2014
- Ph.D. (incomplete): [distributed key-value store overlay networks, their spectrum and resilience to partitioning](#)
- 2005 M.Sc. «[Systems and Methods of Decision-Making](#)», Institute of Applied System Analysis of NTUU «Kyiv Polytechnic Institute», Ukraine

Languages

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

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
- Prefer waiting (for open source to reach parity with requirements) to inventing (from scratch, in-house)

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
- 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*

Preferred Tools

- Operating System: Debian/Ubuntu, Xfce
- Development tools: IntelliJ Idea/DataGrip, dig, nc, wireshark, Chrome Dev Tools
- Terminal: bash, tmux, silversearch, fzf, k9s, vim/nano

Employment History

Time	Employer	Position
	Technologies	Project Domain
current		
-	Thought Machine	Site Reliability Engineer
Sept 2021		

	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	Innovects, 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, 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 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: 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