

Personal information	Born on <b>21/12/1983, Smederevo (Serbia)</b> , living in <b>Koekelberg (Belgium)</b> since 2011 My website is <a href="http://aleksic.dev">aleksic.dev</a> , email is <a href="mailto:milanaleksic@gmail.com">milanaleksic@gmail.com</a> and Twitter is: <a href="https://twitter.com/milanaleksic">@milanaleksic</a> I have <i>dual citizenship</i> of Belgium and Serbia.	
Education	<b>Dipl. Ing. Computer Science &amp; Engineering</b> University of Belgrade (Serbia), Faculty of Electrical Engineering (ETF) “NARIC – Vlaanderen” recognized diploma as <b>M.Sc.</b> <sup>1</sup>	2008
Spoken lang.	<b>Serbian</b> (mother tongue), <b>English</b> (fluent), <b>Dutch</b> (C1 Effectiveness 1 <sup>2</sup> )	
Keywords	Java, Go, AWS, Python, PostgreSQL, JavaScript	
Experience	<b>Expert Software Engineer @ TomTom (Belgium)</b> Feature development and maintenance of various core systems and applications in MPU Core CCE <i>MLF library</i> : authored code-generated POJO Java wrapper around GDAL OpenFileGDB Custom ANTLR grammar for extended validation, Python/Markdown doc generator <i>Sinatra</i> : Led migration of a complex process into AWS for GIS source data digestion PostgreSQL RDS, Spring Boot 2, SQS, ECS, Terraform, Vue.js <i>Pupin</i> : created machine learning cloud service for data classification ( <i>plural junctions</i> problem) Training: PostGIS, Python, Scikit-Learn, XGBoost, (Geo)Pandas, Jupyter Online+Batch prediction: Terraform / AWS ECS, Spring Boot 2, XGBoost, REST <i>Dumbo</i> : migration of batch processing tool into the cloud AWS Batch, ECS, PostgreSQL, S3, X-Ray; Spring Boot 2, Terraform, Python, Jenkins <i>Excelsior</i> : process orchestration service <a href="http://states-language.net/spec.html">states-language.net/spec.html</a> (spec only), ECS+Lambda, Java 11, Python 3 <i>Nozem</i> : 3rd party automated source ingestion service (under development)	2017 - ...
	<b>{Senior, Lead} Software Engineer @ Basware (Belgium)</b> <i>Portal Basware Network</i> : Active full-stack development role on online and internal services Play2, Scala, Java8, MongoDB, Spring, Chef, Go <i>Basware e-Archiving</i> : DevOps lead-in-charge and one of lead developers CloudFormation, Jenkins, Bash, AWS CLI; Java Lambdas, API GW, S3, DynamoDB, SQS, Splunk Introduced cross-systems end-to-end testing (Norsu project: Groovy, Cucumber, Gradle) Rewritten core validation business rules implementation (Java) Cross-systems metrics gathering & analysis via Akka (Scala) and Dashing.io (Ruby) Migration of legacy Resin applications to Tomcat cluster (Oracle, JSP, RMI, Ant, Tomcat, Apache2) HAL9000 Flowdock bot (cross-referencing 100+ developers and Jenkins jobs written in Go)	2013 - 2017
	<b>Freelance Consultant (Gtech UK)</b> Support migration of einstants Flash to HTML5 (Script#, Grunt, RequireJS, Karma) Various tasks related to new Switzerland Lottery’s online game LotoExpress	2014
	<b>Software consultant @ Cronos (Belgium)</b> Interwoven TeamSite consultancy in <i>BNP Paribas Investment Partners</i> Full-stack maintenance of global portal <a href="http://www.bnpparibas-ip.com">www.bnpparibas-ip.com</a> (Java, Oracle, XSLT, Perl, JavaScript) Server Synchronization: tool for content synchronization analysis over Solaris systems (Java)	2011 - 2013
	<b>Software Engineer II @ Gtech G2 Sports Betting (Serbia)</b> WARP framework core engineer: front-end (Script#) and back-end (C#) National Lottery Players’ portals for Chile ( <a href="http://www.polla.cl">www.polla.cl</a> ) and Belgium ( <a href="http://www.e-lotto.be">www.e-lotto.be</a> ) <i>DistributeWarpComponent</i> : developer tool, Visual Studio plugin (C# / Groovy) <i>CipDroid</i> : Android application for internal issue management system	2009 - 2011
	<b>Software Developer @ Arius (Serbia)</b>	2007 - 2009

<sup>1</sup> Details in appendix 6

<sup>2</sup> Details in appendix 7

Java developer of transaction systems  
Dispatching of bank notifications via SMSC / GSM modem (JMS, Spring, WebSphere 6, Oracle)  
Mobile top-ups Java server transaction application (MRS system: Java, JPOS Q2, WebSphere)  
Offline vouchers project for Nigerian market (C, Java)  
Evolution of payment transaction system for POS terminals (TMS system)

**Intern software developer @ ESAProjekt (Poland)**

2006

Usage of iOmniscient video recognition software for parking lots (C#)

Selected  
open source  
projects

Personal Web site ([github.com/milanaleksic/man-website](https://github.com/milanaleksic/man-website); Hugo, AWS (CloudFront, S3, Cert. Man.)  
Simple static web site in the cloud, deployed via Semaphore.ci + AWS CLI

gomakefiles ([github.com/milanaleksic/gomakefiles](https://github.com/milanaleksic/gomakefiles); Makefile, Bash)  
Reusable Makefile files which allow cross CI/CD Go compilation with many useful tools

Notes For Life (Go; BADUC)  
Dropbox-to-Dokuwiki sync

Igor ([github.com/milanaleksic/igor](https://github.com/milanaleksic/igor); Go Lambda, Vue.js, Google+, CloudFront, Cognito, DynamoDB)  
"I am away" Flowdock bot, deployed via Semaphore.ci + CloudFormation

Clici for Jenkins ([github.com/milanaleksic/clici](https://github.com/milanaleksic/clici); Go)  
Customizable Jenkins ncurses-like command line tool to follow Jenkins jobs

HostChecker ([github.com/milanaleksic/hostchecker](https://github.com/milanaleksic/hostchecker); Go)  
Uses JSON DSL to verify expectations which a certain cluster of machines must fulfil

Baobab ([milanaleksic.github.io/baobab/](https://milanaleksic.github.io/baobab/); Java)  
JSON-to-SWT mapping and annotation-driven MVC GUI framework

MtsCheckAccount ([github.com/milanaleksic/mtscheckaccount](https://github.com/milanaleksic/mtscheckaccount); Java, GNU RxTx)  
GUI application for executing USSD via AT commands on USB 3G modems  
Supporting modems ZTE MF622 and Huawei E1550 on Windows and Linux

Some selected  
closed source  
projects

Batler (Go, BADUC)  
Home automation Telegram bot

Advent Of Code 2018 (Go)

BADUC (**Bastion**+DroneCI+**Usher**+Consul; also Chef, Gitea, SystemD)  
CD system for software deployment in my home network via Go microservices

VOZ (Go, PostgreSQL, ANTLR, Vue.js, Bootstrap 4; BADUC)  
Feature-rich web page content extraction service  
Integration with IFTTT, Wallabag v1 API compatibility, Search Query grammar

NovinarnicaDownload (Scala, Akka, Spray.io, Google OAuth&GMail, Pushbullet)  
Content crawler and CBR packager of magazines from [www.novinarnica.net](http://www.novinarnica.net)

Movie Catalog System (Java, Baobab)  
Catalog program for movie collections for Windows and Linux (SWT, Hibernate, H2)  
TMDB integration (find-a-movie, posters, IMDB links)  
Custom SWT components for UX, multi-master optimistic replication via vector clocks,  
Versioned database alteration and restoration from backup

Collaborative Utilities Concept (Java, Baobab)  
Platform for integration of numerous (thirteen) tools (SWT, Smack, JMF...)  
Including Jabber bot, scheduled SQL firing, ISO8583 message parser etc

Talks	(BeScala) Introducing a reactive Scala-Akka based system in a Java centric company <a href="http://www.meetup.com/BeScala/events/220967046/">http://www.meetup.com/BeScala/events/220967046/</a> (with Jeroen Verellen)	2015
Completed courses	Coursera, Functional Programming in Scala (with Martin Odersky)	2012
	Coursera, Algorithms 1 & Algorithms 2 (with Robert Sedgewick)	2013
	Coursera, Pattern Oriented Software Architecture (with Douglas Schmidt)	2013
	10gen, MongoDB for Java Developers (M101J)	2013
	Coursera, Principles of Reactive Programming (with Odersky, Meijer & Kuhn)	2014
Awards	Gtech Silver Building Excellence Award	2009
	Gtech Gold Building Excellence Award	2010
Certifications	Oracle Certified Professional, Java Programmer 6 (OCPJP 6)	2011
	Oracle Certified Professional, Java EE 5 Web Component Developer (OCPWCD 5)	2011
	Oracle Certified Expert, Java EE 6 Java Persistence API Developer (OCEJPA 6)	2012
Appendixes	[1] <a href="http://www.milanaleksic.net/public/cv-app1">www.milanaleksic.net/public/cv-app1</a> Recommendation by prof. Igor Tartalja (Belgrade ETF)	
	[2] <a href="http://www.milanaleksic.net/public/cv-app2">www.milanaleksic.net/public/cv-app2</a> Recommendation by Rafal Dunal (internship in Poland)	
	[3] <a href="http://www.milanaleksic.net/public/cv-app3">www.milanaleksic.net/public/cv-app3</a> GTECH Silver Building Excellence Award	
	[4] <a href="http://www.milanaleksic.net/public/cv-app4">www.milanaleksic.net/public/cv-app4</a> GTECH Gold Building Excellence Award	
	[5] <a href="http://www.linkedin.com/in/milanaleksic">www.linkedin.com/in/milanaleksic</a> My LinkedIn page with additional information, recommendations etc.	
	[6] <a href="http://www.milanaleksic.net/public/cv-nostrification">www.milanaleksic.net/public/cv-nostrification</a> De Gelijkwaardigheid van Buitenlandse diploma's en studiegetuigschriften met een Vlaamse academische graad	
	[7] <a href="http://www.milanaleksic.net/public/cefr_en_overzicht_nt2_aanbod.pdf">www.milanaleksic.net/public/cefr_en_overzicht_nt2_aanbod.pdf</a> Common European Framework of Reference for Languages and NT2 providers	