

Milan Aleksić

Last updated: 15/09/2020

Personal

Born on 21/12/1983, Smederevo (Serbia), living in Koekelberg (Belgium) since 2011. I have dual citizenship of Belgium and Serbia.

My website is aleksic.dev, email is milan@aleksic.dev and Twitter account is: [milanaleksic](https://twitter.com/milanaleksic). I am fairly active on github.com/milanaleksic. I also have a [LinkedIn account](#) if you'd like to connect with me. My public GPG key is: [0xDF7A2E812429D391](#).

Education

Dipl. Ing. Computer Science & Engineering (2008) from *University of Belgrade* (Serbia), Faculty of Electrical Engineering (ETF)

“NARIC – Vlaanderen” [recognized diploma as M.Sc.](#)

Spoken languages

- **Serbian** (mother tongue)
- **English** (fluent)
- **Dutch** (C1 Effectiveness 1, explained in [Common European Framework of Reference for Languages and NT2 providers](#))

Keywords

Java, Go, AWS, Python, PostgreSQL, JavaScript

Experience

Senior Software Engineer @ SodaData (Belgium)

Place: **Remote/Brussels, Belgium**

Period: **2020-...**

Projects:

- soda.io Data Quality (backend engineer)
 - Cloud development on AWS (using Terraform and Pulumi)
 - Programming languages: Java 8 and Python 3,
 - Broad data sources coverage: MySQL, PostgreSQL, Redshift, Spark

Expert Software Engineer @ TomTom (Belgium)

Place: **Ghent, Belgium**

Period: **2017-2020**

CCE Team Feature development and maintenance of various core systems and applications in *MPU Core Coverage Creation & Extension* team

Projects:

- *MLF library*: authored code-generated Java wrapper around GDAL OpenFileGDB (later extended to PostGIS and GeoPackage).
 - Custom ANTLR grammar for extended validation, Python/Markdown doc generator
- *Sinatra*: Led migration of a complex process into AWS for GIS source data digestion
 - PostgreSQL RDS, Spring Boot 2, SQS, ECS, Terraform, Vue.js
- *Pupin*: created machine learning cloud service for data classification (plural junctions problem)
 - Training: PostGIS, Python, Scikit-Learn, XGBoost, (Geo)Pandas, Jupyter
 - Online+Batch prediction: Terraform / AWS ECS, Spring Boot 2, XGBoost, REST
- *Dumbo*: migration of used batch processing tool into the cloud
 - AWS Batch, ECS, PostgreSQL, S3, X-Ray; Spring Boot 2, Terraform, Python, Jenkins
- *Excelsior*: process orchestration service
 - [States Language implementation](#) (spec only), ECS+Lambda, Java 11, Python 3

Hermes team Feature development on new long-term systems and applications in *Hermes* team

Projects:

- *Nozem*: always-up-to-date source ingestion service into core TomTom data layer
 - Kafka, PostgreSQL, Python, Spring Boot, Jenkins
- *Lego*: automated map features ingestion
 - Kubernetes on Azure Cloud, Python, Java, QGIS Python plugins

{Senior, Lead} Software Engineer @ Basware (Belgium)

Place: **Aalst, Belgium**

Period: **2013-2017**

Projects:

- *Basware Network Portal*: Full-stack development role on online and internal services
 - Play2, Scala, Java8, MongoDB, Spring, Chef, Go
 - Rewritten core validation business rules implementation (Java)
- *Basware e-Archiving*: DevOps lead-in-charge and one of lead developers
 - CloudFormation, Jenkins, Bash, AWS CLI
 - Java Lambda functions, API GW, S3, DynamoDB, SQS, Splunk
- *Norsu*: Introduced cross-systems end-to-end testing
 - Groovy, Cucumber, Gradle
- Business Metrics dashboards
 - Akka (Scala) and Dashing.io (Ruby)
- Migration of legacy Resin applications to Tomcat cluster
 - Oracle, JSP, RMI, Ant, Tomcat, Apache2
- *HAL9000*: Flowdock bot (CI/CD automation helper for 100+ developers)
 - Go

Freelance Consultant

Place: **Remote** (part-time job)

Period: **2014**

Projects:

- Support migration of einstants Flash to HTML5 (Script#, Grunt, RequireJS, Karma)
- Various tasks related to new Switzerland Lottery's online game LotoExpress

Software consultant @ Cronos (Belgium)

Place: **Brussels, Belgium**

Period: **2011-2013**

Projects:

- Interwoven TeamSite consultancy in BNP Paribas Investment Partners
 - Full-stack maintenance of global portal www.bnpparibas-ip.com (Java, Oracle, XSLT, Perl, JavaScript)
 - Server Synchronization: tool for content synchronization analysis over Solaris systems (Java)

Software Engineer II @ Gtech G2 Sports Betting

Place: **Belgrade, Serbia**

Period: **2009 - 2011**

Projects:

- *WARP Framework*
 - Core engineer (front-end and backend in Script#/C#)
- Lottery Players' portals projects
 - *Chilean* National Lottery (www.polla.cl)
 - *Belgian* National Lottery (www.e-lotto.be)
- *DistributeWarpComponent*
 - Microsoft Visual Studio developer tool for immediate development cycle feedback (C# / Groovy for backend server)
- *CipDroid*: Android application for internal issue management system

Software Developer @ Arius (Serbia)

Place: **Belgrade, Serbia**

Period: **2007-2009**

Projects:

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

Intern software developer @ ESAProjekt

Place: **Katowice, Poland**

Period: **2006**

Projects:

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

Selected open source projects

- [Personal Web site](#) (Hugo, Netlify)
- [Advent of Code 2018](#) (Go)
- [gomakefiles](#) (Makefile, Bash)
 - Reusable Makefile files which allow cross CI/CD Go compilation with many useful tools
- [Igor](#) (Go Lambda, Vue.js, Google+, CloudFront, Cognito, DynamoDB)
 - “I am away” Flowdock bot, deployed via Semaphore.ci + CloudFormation
- [Clici for Jenkins](#) (Go)
 - Customizable Jenkins ncurses-like command line tool to follow Jenkins jobs
- [Baobab](#) (Java)
 - JSON-to-SWT mapping and annotation-driven MVC GUI framework
- [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

Selected closed source personal projects

- Home Laboratory
 - Cluster of 8+ hybrid (ARM 5/6/7, amd64) servers and 3 switches
 - Chef (Zero) used for config mgmt, Gitea as git repo
 - Monitoring via Grafana, InfluxDB, Grafana Loki
- BADUC (Bastion+DroneCI+Usher+Consul; also Chef, Gitea, SystemD)
 - CD system for artifact deployment in my home network
 - Uses self-developed Go microservices like Bastion (HTTP server endpoint to trigger deployment), Usher (node agents that execute deployment)
 - Deployment workflow handled via combination of DroneCI (or Semaphore CI) Consul, SystemD and Chef
- Batler (Go, BADUC)
 - Telegram bot I use for home automation tasks like turning on/off my workhorse laptop, Windows VM
 - Used as on-prem notification bridge for Synology and all other services
- [thoughttrain.app](#) (Go, PostgreSQL, ANTLR, Vue.js, Bootstrap; BADUC)
 - Feature-rich web page content extraction and knowledge graph service
 - Search Query grammar, AWS S3 asset service
 - Mobile applications built using Flutter (Android, iOS)
- NovinarnicaDownload (Scala, Akka, Spray.io, Google OAuth&GMail, Pushbullet)
 - Content crawler and CBR packager of magazines from 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

Miscellaneous

Public talks

- (BeScala) [Introducing a reactive Scala-Akka based system in a Java centric company](#)
 - with Jeroen Verellen, 2015

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)

Recommendations

- [Recommendation by prof. Igor Tartalja \(Belgrade ETF\)](#)
- [Recommendation by Rafal Dunal \(internship in Poland\)](#)
- [Additional recommendations on my LinkedIn profile](#)