Milan Aleksić

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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 Bluesky account is: aleksic.dev. I am fairly active on github.com/milanaleksic. I also have a LinkedIn account if you'd like to connect with me.

Education & spoken languages

Dipl. Ing. Computer Science & Engineering (2008) from *University of Belgrade* (Serbia), Faculty of Electrical Engineering (ETF). "NARIC – Vlaanderen" recognized my diploma as M.Sc..

I can speak in the following languages: **Serbian** (mother tongue), **English** (fluent), **Dutch** (C1 Effectiveness 1), **French** (A2, basic level)

Keywords

Java, Go, AWS, Python, PostgreSQL, MySQL

Work experience

[2020-. . .] Senior Software Engineer @ Soda (Brussels, Belgium)

My role was soda.io Cloud Backend founding engineer (since late spring 2025 also a member of the platform "Foundational" team). Programming languages I used were Java, Python and Go.

I became the company backend & MySQL perf guy and helped the company grow 100x in customers and revenue over 5 years without high-profile incidents of the Soda Cloud product.

I also made an internal tool (`dogo`) for DevOps tasks: feature flip management, backend runtime reconfiguration, deep incident analysis, prod environment access authz - v1 in Python, v2 in Go (using our own and also external APIs: AWS/Okta/Datadog, SQLite, Perfetto).

[2017-2020] Expert Software Engineer @ TomTom (Ghent, Belgium)

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 internal heavily 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 OpenStreetMap ingestion service into core TomTom data layer
    – Kafka, PostgreSQL, Python, Spring Boot, Jenkins
- *Lego*: automated OpenStreetMap features ingestion
    – Kubernetes on Azure Cloud, Python, Java, QGIS Python plugins

[2013-2017] {Senior, Lead} Software Engineer @ Basware (Aalst, Belgium)

Projects:

- *Basware Network Portal*: Full-stack development role on online and internal services
    – Tech stack: 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
    – Tech stack: CloudFormation, Jenkins, Bash, AWS CLI
    – Cloud stack: Java Lambda functions, API GW, S3, DynamoDB, SQS, Splunk
- *Norsu* (Groovy, Cucumber, Gradle): Cross-systems end-to-end testing
- Business Metrics dashboards (Akka and Dashing.io)
- Migration of legacy Resin applications to Tomcat cluster
    – Oracle DB, JSP, RMI, Ant, Tomcat, Apache2
- *HAL9000* (Golang): Flowdock bot (CI/CD automation helper for 100+ developers)

[2006-213] Previous work experience

Reach out for a chat if you want more details about things in this list.

2014: Freelance Consultant (remote) @ Gtech UK (*Brussels, Belgium*)

2011-2013: Software consultant @ Cronos (Belgium) (*Brussels, Belgium*)

2009-2011: Software Engineer II @ Gtech G2 Sports Betting (*Belgrade, Serbia*)

2007-2009: Java Developer @ Arius (*Belgrade, Serbia*)

2006: Intern software developer @ ESAProjekt (*Katowice, Poland*)

Selected open source projects

- Advent of Code 2023: https://github.com/milanaleksic/adventofcode2023 (Zig)
- Personal Web site: https://github.com/milanaleksic/aleksic.dev (Hugo, Cloudflare Pages)
- Advent of Code 2018: https://github.com/milanaleksic/adventofcode2018 (Go)

Selected closed source personal projects

- Home Laboratory: a hybrid cluster (arm/amd, RPis/NUC Proxmox, home/Oracle Cloud) connected using Tailscale, and with a Synology NAS. Uses Ansible for foundational setup and HashiCorp Nomad for container scheduling (40+ services like Gitea, Minecraft, yarr, etc.). Deep monitoring via Grafana Stack and InfluxDB. Slowly migrated to k3s.
- Thought Train (Go, PostgreSQL, NATS, htmx) my main side project: a feature-rich web page content extraction, note taking & book annotation distributed service; utlizes an ANTLR Search Query grammar, Pulumi AWS and with dedicated mobile applications (Android, iOS, using Flutter) and a Chrome Extension (Svelte)
- Batler (Go): personal Telegram bot I use for homelab automation tasks and as the main notification pipeline
- Novinarnica (Go): content crawler and CBR packager of magazines