

# Ilija Matoski

📍 Amsterdam (Netherlands)

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I'm an engineer, whose expertise and passion lies in development work, software architecture, solution designing, network infrastructure setup (clusters, cloud), problem solving, data algorithms, big data, data mining, natural language processing, machine learning, artificial intelligence, and am always ready to debug that elusive issue, or learn new things.

Easily adaptable, flexible and open minded, I love to work in teams. I've worked for big companies (>200 employees), small companies (<10 employees), as well as working for myself. I believe that this has given me an invaluable breadth of experience and understanding.

Practicing agile methodologies, and both Scrum and Kanban, love mentoring and coaching people, and guiding them on their right path.

Please check out my Homepage, Blog, GitHub and LinkedIn profile for better understanding of what I've been involved in the past years, and if you have some questions or just want to talk to me I'm always available, and would love to hear from you.

Kind regards,

Ilija Matoski

# Curriculum vitae

## PERSONAL INFORMATION

### Ilija Matoski

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## WORK EXPERIENCE

Jun 2016–Present

### Senior Software Engineer

Pointer Brand Protection B.V., Amsterdam (Netherlands)

Development and architecture of several inhouse systems for advanced online brand protection solutions. Reworking the old system into a microservice architecture, while taking in mind performance, scalability, security, fault tolerance and stability, and implementing core functionality for the solution.

Leading and mentoring team members in Architecture, Infrastructure and Software Development.

Responsible of speccing, designing and implementation a high availability clusters, loadbalancers with failovers for outside access to the required services, across multiple DC and even on different providers.

Implementation of a private cloud server farm, building multi DC internal networks, building automation tools for cross providers automation.

Implementation of automated deployments and optimization of the build pipeline and CI/CD. And building end to end testing, experimenting with blue-green deployments.

Using Tensorflow to build image matching, categorization, to help in reducing the noise we intake on a daily basis.

**Technologies/Tools used:** Golang, node.js, Docker Swarm, Kubernetes, Gitlab, CI/CD, Nginx, Tensorflow, Ansible, OpenCV, Machine Learning, Artificial Intelligence (AI), React, Vue.js, PHP, CSS, HTML5, JavaScript, MongoDB Cluster, MySQL (Percona), Elasticsearch Cluster, ELK, Redis, Amazon AWS, EC2, Debian, VPN, heartbeat, corosync, Proxmox, gRPC, protobuf, RabbitMQ, Microservices, Traefik, Istio, ZeroMQ, Cassandra, Kafka, OpenTracing, Zipkin

Nov 2012–Jun 2016

### Consultant, Software Architect, Senior Software Engineer

Covantia LLC (United States)

Development of high performance distributed microsevices written in Golang and node.js, that are used in various schools districts in LA. Responsible for the overall architecture and infrastructure of all the projects in the company. Management of the whole infrastructure on top of AWS.

**Technologies Used:** Golang, Kubernetes, OpenTracing, Docker Swarm, PWA, node.js, Android, PHP (CodeIgniter), CSS, HTML5, JavaScript, MongoDB Cluster, WebRTC, SNS/SQS, SQS, ElastiCache, Redis, Amazon AWS, EC2, Route 53, DynamoDB, S3, RDS, jqGrid, jQuery, LoDash, Underscore, Debian, Cassandra, Kafka, OpenTracing, Zipkin

Jan 2014–Jun 2016

### Consultant, Solution Architect, Team/Technical Lead

Sciencix, Minnesota (United States)

[www.sciencix.com](http://www.sciencix.com)

In charge of research and development of a networked dissolution tester, including hardware, software, on-line cloud management software, and android application (that can control a dissolution tester) which can remotely control them, schedule tasks when to run, and running validations on the instruments based on the data we collect, and external validations, to make sure they are in proper working order. Planing and speccing the network infrastructure required for the product. And also reverse engineering the hardware and software of older models on the market so they can be used

with our platform.

**Technologies used:** Golang, PHP, HTML5, CSS, JavaScript, AngularJS, node.js, Android, Java, embedded C, Python (for developing command-line tools), C/C++ (building some modules for node.js), MongoDB, Redis, ATmega, PIC, ARM, Debian, Cassandra, Kafka, OpenTracing, Zipkin

Dec 2012–Jan 2014 **Senior Software Engineer, Team/Technical Lead**

Mars Omega LLP (United Kingdom)

[www.marsomega.com](http://www.marsomega.com)

Development and architecture of a inhouse system for information/intelligence gathering and analysis of the data, and is used for storing and organizing the data. This is a tool for people to enter data and link the data together so we can have a view of how the data correlates to each other and also to generate relationships and see other connections between them. It also grants you the ability to work on multiple data at the same time, providing a centralized view in which you can add stuff and organize.

**Technologies used:** PHP (Yii), CSS, HTML5, JavaScript, jqGrid, jQuery, LoDash, Underscore, node.js, MongoDB, Redis, GIS (GeoServer), OpenLayers, Google Maps. Debian, CentOS, Ubuntu, heartbeat, KVM, iptables, Subversion

Jan 2011–Nov 2012 **Senior Software Engineer, Team/Technical Lead**

MI-C3, Skopje (Macedonia)

[www.mi-c3.com](http://www.mi-c3.com)

In my time in MI-C3 I worked on many projects, the two most important ones are:

**Mi-bubble (Version 6.8)**, a system that is offering a customized solution for managing, deploying and tracking an organization's assets, being movable, non-movable as well as taking into consideration the human element. This system is used by multinational companies, tracking their assets all over the globe.

**TagNGo**, In charge of creating the software architecture for a GPS safety system, used by parents to track their children. This was a real time tracking system, with a max delay of 5 seconds. Building such a system and designing it had its own challenges and rewards.

**Technologies used:** JavaScript, jQuery, Underscore, LoDash, PHP, Java, Android, DNS, VoIP, HTML5, CSS, Hadoop, MongoDB, CouchDB, Map/Reduce, MySQL, PostgreSQL, Amazon AWS, Route 53, WebRTC, Esper

Jun 2010–Dec 2010 **Senior Software Engineer, Team/Technical Lead**

dcom

7-16-3, Ginza, Chuo-ku, Tokyo (Japan)

[www.dcom-web.co.jp](http://www.dcom-web.co.jp)

After a short adaptation from Macedonia to Japan, I joined dcom as a Team Lead. My main role was to build a team of young engineers which I would personally mentor into using multiple technologies and do projects together. Our projects were around the concept of e-Learning. The end result was an e-Learning system which was web based, but also included a mobile client that tracked the user sessions across devices.

■ [Projects on Google Playstore](#)

**Technologies used:** C# .NET, ASP .NET, PHP, Java, Android, JNI

Nov 2009–Apr 2010 **Software Engineer**

Seavus, Skopje (Macedonia)

[www.seavus.com](http://www.seavus.com)

Worked on providing services and continuous maintenance of a local telecom provider. Our team directly managed the application service including telephony systems, CMS, and collecting anonymous data for analysis and further improvement of the services we provided. The development included writing modules for the system in PHP and JavaScript. The databases which were used were based on relational SQL databases.

**Technologies used:** PHP, HTML, CSS, JavaScript, jQuery, Underscore, Asterisk, Subversion, Linux,

MySQL, PostgreSQL, Oracle, and IBM Informix

## EDUCATION AND TRAINING

- 2010–2015 **Master of Science and Engineering, Software Engineering** EQF level 7  
 Faculty of Electrical Engineering and Information Technologies, Skopje (Macedonia)  
<http://en.feit.ukim.edu.mk/>
- 2002–2009 **Bachelor of Science / Bachelor of Computer Science, Information Technology and Automation** EQF level 7  
 Faculty of Electrical Engineering, “Ss Cyril and Methodius” University, Skopje (Macedonia)  
<http://en.feit.ukim.edu.mk/>  
 10 Semesters

## PERSONAL SKILLS

Mother tongue(s) Macedonian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Japanese	A2	A1	A2	A2	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

## ADDITIONAL INFORMATION

### Achievements

- Software architect for several projects, and leading a team of people, where management and implementation was critical.
- Successfully managed a team of developers both in term of technology and human aspect, where I was in charge of the development and release cycle of the projects in question.
- Migrations from one provider to another without downtime, and building multi DC setups (on different providers)
- Acting in a mentoring capacity for a period of years getting new software engineers up to speed, for various technologies. Experience in providing a course for software engineers in system design/architecture, and various software technologies.
- Applications developed by me on the Google Playstore
- Setup a hosting company, including all the infrastructure required for a company like that

### Personal Projects

- **Glacier Interface**, A command line tool to interface with glacier. It's a multithreaded application that supports multipart uploads to Amazon Glacier servers, you can specify concurrency, to speed up the upload. <https://github.com/ilijamt/glacier-interface/>
- **ADB Manager**, A tool that simplifies development on android <https://github.com/ilijamt/android-adbm>
- **AppOps Launcher**, AppOps is a new feature introduced by Android 4.3 to manage permissions of apps. It can help you to secure your android device and protect your privacy. <https://github.com/ilijamt/android-appopslaucher>
- **Lambda Security Group Manager**, A tool to auto manage the security groups on AWS using Lambda, for which you can write rules quite easily. [https://github.com/ilijamt/lambda\\_security\\_group\\_manager](https://github.com/ilijamt/lambda_security_group_manager)
- **Blacklist Checker**, A tool to verify if the IP, or CIDR is in a predefined blacklist. <https://github.com/ilijamt/blacklist-checker>

- **Proxy Checker**, A tool to verify that a proxy actually works <https://github.com/lijamt/proxy-checker>

#### Consultancy

- Infrastructure
- Software Architecture and Design
- Amazon Web Service (AWS)
- Google Cloud Platform (GCP)
- Viability and prototyping of systems (both Hardware and Software)
- Server kernel optimization and hardening
- Security audit

#### Visa

- Netherlands (Work Visa)
- Japan (Can request spousal visa)