

# ILLIA DANKO

## Software Engineer

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## PROFESSIONAL SUMMARY

Overall, eleven years of working experience in the field. Have participated in various technologies and programming languages, including Elixir, Javascript, Typescript, Golang, C, C++, Java, Clojure, and Python. Started as a system engineer and was moving to the Web, and Golang, in particular. I'm strongly focused on business' needs, and as a free software user, sometimes consider contributing further back to Open Source.

## TECH STACK

### General Purpose Languages

Elixir    Javascript    Typescript    Golang    C    Clojure    Python    C++    Java

### Domain Specific Languages, frameworks and databases

Phoenix    Html    Sass & Css & Tailwindcss    React    Bash    Makefile    CMake    Javascript    Postgresql  
MongoDB    Elasticsearch    ArangoDB    ELisp    Lua    L<sup>A</sup>T<sub>E</sub>X    Protobuf    Graphql

## EXPERIENCE

### Software Engineer

#### Aller Media Norway

Nov 2022 - Ongoing    Ukraine, UA

- Design, develop and maintain core pipeline high throughput services.
- Develop UI Web tools using upstream technologies.
- Implement internal helper tools.
- Troubleshooting high performant components.

#### Stack

Golang design, prototype, implement and maintain services using google pubsub, redis, rest api and graphql, elastic-search, postgresql, docker and kubernetes. Write command line company centric tools.

Typescript / Javascript / React / Next.js implement and maintain UI admin panel using both: client and service side rendering.

Phoenix Elixir / Ecto / Tailwindcss design and implement internal tools and services.

Bash ci/cd scripting.

### Software Engineer

#### Aigent

Dec 2019 - Oct 2022    Amsterdam, NL

- Design, develop and maintain core pipeline services.
- Implement internal tools.
- Troubleshooting high performant components.
- Refine existing parts.
- Collaborate with clients.

## Stack

**Golang** design, prototype, implement and maintain real time low latency microservices using kafka, memcached, rest api, rpcs, protobuf/msgpack, postgresql, arangodb, kubernetes. Write command line tools. Embed C libraries (cgo).

**C** write ffi libraries for other languages.

**Javascript** implement ecma5/6 compatible web applications, support react applications. Design, prototype and implement microservices using rest api, protobuf, mqtt, postgresql, kubernetes.

**Clojure** implement microservices for features using rest api, elasticsearch, mqtt. Implement internal tools.

**Python,Bash** ci/cd scripting.

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## Software Engineer

### Omnisend

📅 Feb 2018 – Dec 2019

📍 Lviv, UA

- Design, develop and maintain high performing services.
- Cover with acceptance and e2e tests.

## Stack

**Golang** design, implement and support features microservices using rest api, grpc, nats, nsq, mongodb, kubernetes. Integrate 3rd party platforms. Write command line tools.

**Javascript** Design, prototype and implement microservices using rest api, nsq, nats, mongodb.

**Python,Bash** ci/cd scripting.

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## Test Engineer

### Here

📅 Jun 2017 – Feb 2018

📍 Lviv, UA

- Design and develop integration testing framework.
- Implement and maintain integration tests for car navigation systems.

## Stack

**Python** add features, maintain a testing framework using jenkins, sqlite3, casandra, hadoop map-reduce, aws s3, ec2, route algorithms (djaextra). ci/cd scripting.

**Bash** ci/cd scripting.

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## Middle Software Engineer

### Cisco

📅 Nov 2015 – Jun 2017

📍 Lviv, UA

- Develop and maintain gateway systems for embedded devices.
- Develop and maintain primitive components and drivers, such as, voip, iptv, vpn.
- Write technical documentation.
- Participate in dmz room setup.
- Maintain and extend dmz testing framework.

## Stack

**C** write and maintain modules for embedded equipment, including character and network devices using pki, httpd, tcp, udp, ppp, cgi, soap, tr-69, tr-98, tr-181, ieee 802.11, ethernet, ipv4, ipv6, dhcp.

**Python** add features to dmz testing framework using git hooks, jenkins, cisco hardware.

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## Software Engineer

### Inside Secure

📅 Jul 2013 – Nov 2015

📍 Lviv, UA

- Develop and maintain a stereotyped simulator for credit card vendors.
- Write and maintain integration tests.

### Stack

C++ implement and support visualization desktop gui tools (qt library), maintain nfs smartcards testing framework.

Java add features to mastercard nfs smardcards testing framework, maintain tools.

Python,Bash ci/cd scripting.

## SIDE PROJECTS

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slivce.net - Wordle Game in Ukrainian. The main aim is to reduce the russian language's influence and to get people into Ukrainian vocabulary by having fun.

## LANGUAGES

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English



Ukrainian



## EDUCATION

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Bachelor of Economics

**Volodymyr Dahl East Ukrainian National University**

📅 Sep 2010 – Jun 2013