ILLIA DANKO



Software Engineer

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PROFESSIONAL SUMMARY

Hi, I'm Illia (the Slavic form of Elijah), a software engineer with over a decade of industry experience.

My background spans a wide range of technologies, including Elixir, JavaScript, TypeScript, Go, C, C++, Java, Clojure, and Python. I started in systems engineering and later moved into web development, with a strong focus on architecting and developing systems using Go and Elixir. As a free software and Nix system user, I contribute to open source whenever possible.

I've worked at large companies like Cisco and Dentsply Sirona, and helped small to medium-sized startups grow.

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 | LaTeX | Protobuf | Graphql | Terraform

EXPERIENCE

Software Engineer

Dentsply Sirona

Feb 2024 – Ongoing — Ukraine, UA

- Architect, develop, and maintain high-throughput microservices in the core pipeline.
- Tightly collaborate with ops engineers and integrate/maintain the ci/cd pipeline.
- Develop and maintain frontend applications using a cross-platform framework.
- Implement internal helper tools.
- Troubleshoot high-performance components.

Stack

Golang design, prototype, implement, and maintain services and internal tools using Google Cloud infrastructure (docker, kubernetes, pubsub, gcs, postgresql).

C++ maintain existing services and add new features.

typescript / javascript / flutter maintain ui applications and implement new components.

Bash ci/cd scripting.

Terraform deploy services and infrastructure components.

Software Engineer

Aller Media Norway

Nov 2022 – Jan 2024 — Poland, PL

- Design, develop and maintain core pipeline high throughput services.
- Develop UI Web tools using upstream technologies.

- Implement internal helper tools.
- Troubleshoot high-performance 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 rending.
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.
- Troubleshoot high-performance components.
- Refine existing parts.
- Collaborate with clients.

Stack

Golang design, prototype, implement and maintain real time low latency microservies 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.

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 microsevices using rest api, grpc, nats, nsq, mongodb, kubernetes. Integrate 3d party platforms. Write command line tools.
Javascript Design, prototype and implement microservices using rest api, nsq, nats, mongodb.
Python,Bash ci/cd scripting.

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.

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.

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.

LANGUAGES

English

Ukrainian

Polish

EDUCATION

Bachelor of Economics

Volodymyr Dahl East Ukrainian National University

Sep 2010 – Jun 2013