

# Curriculum Vitae

Andrii Nimchenko, Apr 04, 1989  
+380(98)446-38-22  
github.com/tellnobody1  
github.com/zero-deps

## 1 Experience

2020–2021 Lead Software Engineer (Scala 3, ZIO) at *Playtech*<sup>1</sup>  
2017–2019 Lead Software Engineer (Scala, PureScript)  
2014–2016 Senior Software Engineer (Scala, Akka)  
2013–2013 Functional Programming Principles in Scala at *École de Lausanne*<sup>2</sup>  
2013–2014 Senior Software Engineer  
2012–2013 Software Engineer  
2010–2012 Full-Stack Web Engineer  
2010–2011 English B2<sup>3</sup> at *First Courses of Kyiv*<sup>4</sup>  
2006–2012 Applied Mathematics 113<sup>5</sup> (Master's Degree) at *University of Kyiv*<sup>6</sup>

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<sup>1</sup><https://www.londonstockexchange.com/stock/PTEC/playtech-plc>

<sup>2</sup><https://www.epfl.ch/en/>

<sup>3</sup>[https://en.wikipedia.org/wiki/](https://en.wikipedia.org/wiki/Common_European_Framework_of_Reference_for_Languages#Common_reference_levels)

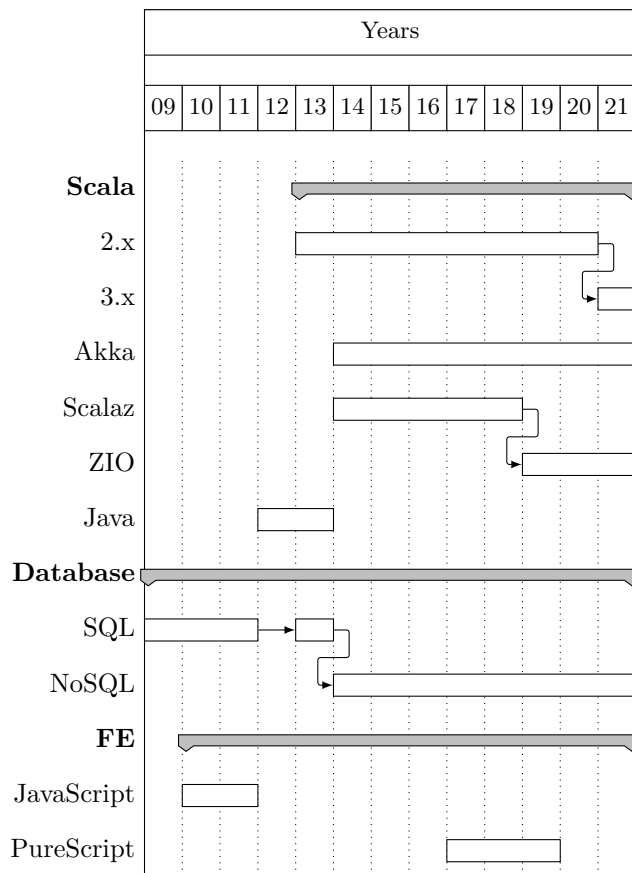
[Common\\_European\\_Framework\\_of\\_Reference\\_for\\_Languages#Common\\_reference\\_levels](https://en.wikipedia.org/wiki/Common_European_Framework_of_Reference_for_Languages#Common_reference_levels)

<sup>4</sup><https://fcourses.com.ua>

<sup>5</sup><https://zakon.rada.gov.ua/laws/show/266-2015-%D0%BF/conv#n11>

<sup>6</sup><http://om.univ.kiev.ua/en>

## 2 Skills



## 3 Projects

### 3.1 Application Server

**stack** Scala, Akka Cluster, Akka Streams, KVS

Application server with streaming idea in its core. The integration layer for services providers which unifies the different APIs and respect the providers limitations guarding their services from unexpected usage. Unified services structure with akka-stream based IO layer and KVS distributed storage engine. Also plays as the service provider for itself to provide event streaming for sports betting and additional data store interfaces for the client application.

## 3.2 Web Platform

**stack** Scala, ZIO, Akka Cluster, PureScript, KVS

Developing and evolving Web Platform for licensees to create portals with player's account management, games hub, content-management system and integration with 3rd-party services and data providers.

It is deployed as one cluster for dozen of licensees with dozens websites. Data is stored into distributed KVS and UI is built with pure functional strongly typed language (PureScript) which produces robust and fail-safe UI. User files are handled by distributed filesystem and meta data is saved to KVS.

## 3.3 Key-Value Store

**stack** Scala, Akka Cluster, ZIO, RocksDB

KVS is highly available distributed (AP) strong eventual consistent (SEC) and sequentially consistent storage.

**code** [github.com/zero-deps/kvs](https://github.com/zero-deps/kvs)

## 3.4 Travel App

**stack** Scala, ZIO, KVS

All-in-one application for travelers: booking, tickets, car rental, navigation, guides.

## 3.5 Frontier Web Server

**stack** Scala, ZIO

High performant, pure-functional, effect-free websocket, http and udp server, http client and telegram bot.

**code** [github.com/zero-deps/frontier](https://github.com/zero-deps/frontier)

## 3.6 Binary Serialization

**stack** Scala 3 Macros, Protocol Buffers, PureScript, LaTeX

Lightweight and fast binary serialization.

**code** [github.com/zero-deps/proto](https://github.com/zero-deps/proto)

### 3.7 Metrics Server

**stack** Scala, ZIO, PureScript, KVS

Metrics/health/logs server and client for Scala projects.

**code** [github.com/zero-deps/metrics](https://github.com/zero-deps/metrics)

### 3.8 Documentation Solution

**Stack** Scala, LaTeX, HeVeA

Documenting system and server for the applications with LaTeX-based tools for generating documentation in HTML and PDF formats.

### 3.9 Cancer Detection Software

Detection of breast cancer on early stages using machine learning algorithm modified to work with small amount of training data.

### 3.10 Optimal Irrigation of Soil

Calculation and visualization of optimal irrigation of soil for selected plants to effectively use water supply in rainless regions.

## 4 Courses, Trainings and Certificates

- Function Programming<sup>7</sup> by *École de Lausanne*
- Database Systems and SQL at *University of Kyiv*
- Data Structures and Algorithms at *University of Kyiv*
- Machine Learning at *University of Kyiv*
- Discrete Mathematics at *University of Kyiv*
- Application Security and Secure Coding Training<sup>8</sup> by *Checkmarx*
- Bitcoin and Cryptocurrency Technologies by *Princeton University*
- Blockchain and Cryptocurrencies<sup>9</sup> by *Diia*
- Computer Driving License<sup>10</sup> by *Diia*

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<sup>7</sup><https://tellnobody.space/cv/cert/fp.pdf>

<sup>8</sup><https://tellnobody.space/cv/cert/sec.pdf>

<sup>9</sup><https://tellnobody.space/cv/cert/crypto.pdf>

<sup>10</sup><https://tellnobody.space/cv/cert/cdl.pdf>

## 5 Bookshelf

- Homotopy Type Theory
- Types and Programming Languages
- Basic Category Theory for Computer Scientists
- Type-Driven Development with Idris

## 6 Stats

GitHub	#76 in Ukraine
StackOverflow	top 5% overall

## 7 Online

Curriculum Vitae is available online at [telnobody.space/cv](http://telnobody.space/cv).