

Artem Kobzar

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Education

2019-2021 **MSc, Software Engineering; National Technical University “Kharkiv Polytechnic Institute”**
(expected)

2015-2019 **BSc, Computer Engineering; National Technical University “Kharkiv Polytechnic Institute”**

Experience

The Most Recent Work Experience:

I worked (from September 2019 to May 2020) at **Wrike Company** in a new Research and Development Team.

I and my teammates (other 2 people) built development analytic process and developed infrastructure for the process from scratch.

My responsibilities areas in the work were:

- Analysis platform.
- Knowledgebase (an API which store project attributes).
- DX Improvement Tools (editor extensions, GitLab webhooks, etc)

We already got results: defined separated responsibility area for our teams, which improved the development process (fast search and communication with code owner) and more productive replacing of deprecated technologies from the product.

Other Recent Job I Had

- **HellYeah** Research Department. I worked on cryptography libraries related to digital signatures and private cryptocurrencies clients with high-level safety. As a result of research, I developed zero-dependency cryptocurrencies clients, which currently used in private projects(NDA).
- **WookieeLabs**. **My Upwork profile at the company**. I worked at different outsource projects as a software engineer: **Unicef Primero**, **Crossover Health**, **doc.ai**, **NextLead**.

Technical Skills

“Primary” Technologies

I commonly work with JavaScript ecosystem.

Especially, I worked a lot with **Node.js** and popular backend frameworks like (**NestJS**, **Express**, **Koa**, **Sails**) at the backend side.

At the backend, I used different DB solutions: **MySQL**, **SQLite**, **PostgreSQL**, **MongoDB**, **Redis**, **DynamoDB**.

Additionally, I worked a lot with popular front-end frameworks like **React** (**React Native** too) and **Vue.js**.

And of course, I worked with popular static type solutions for JavaScript: **TypeScript** and **Flow.js**.

“Secondary” Technologies

I worked with C/C++ and **Rust** ecosystem, especially when I was working with cryptography and cryptocurrencies.

Also, I worked with **Dart Language** and his ecosystem, when I was working in **Wrike Company**.

At the start of my programming career, I worked with C# and .NET, especially, with .NET MVC and .NET Web API.

And when I was a freelancer with pure **PHP** and **Ruby** (**RoR** and **Sinatra**).

“Basic Knowledge” Technologies

In my spare time, I really like to work with: **Haskell**, **Idris**, **ReasonML/OCaml**, **Elixir**, **Clojure** and **Golang**. Additionally, I basically know **Java**, **Swift**, **Python**.

Open Source

My Own

- **Hegel** - a static type checker for JavaScript with high-level type inference (Hindley-Milner algorithm) and a strong type system.
- **sweet-monads** - zero-dependency monads for JavaScript.

In which I make significant changes

- **chokidar** - the most popular Node.js file watcher. The 3.0.0 version was developed on my own.
- **readdirp** - recursive `readdir` with additional goodies (15,603,219 downloads per week). The 3.0.0 version was developed on my own.
- **noble-ripemd160** - a cryptography hash function.
- **noble-ed25519** - a digital signature library based at ed15519 schema.
- **noble-secp256k1** - a digital signature library based at secp256k1 schema.
- **noble-bls12-381** - a digital signature library based at noble12-381 schema.

Initially, noble projects were developed by me and after were handed over to **Paul Miller**:

Other

- I teach students at **JavaScript.Ninja Project**
- I and my friend make a Russian-language podcast **UnderJS** about JavaScript and Compilers.
- I also one of the organizers one of the largest conference in Russian-language countries **HolyJS**
- And also, I'm a public speaker. For now, I speak only for the Russian language audience. My recent talks: “**Dissection of Dart VM**”, “**Either monad: theory and practice**”, “**Why and How I write one more static type checker**”.
- English level: B1/B2