

# Artem Kobzar 111

Kharkiv, Ukraine (ready to relocate)

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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**, **NextLead**, **Crossover Health**.

## 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