

Gleb Arestov, **Principal Frontend Engineer**  
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## Intro

I've worked at 3 startups. I built a lot of things from ground (as **1st engineer at 2 startups** and as founder of indie hacker projects).

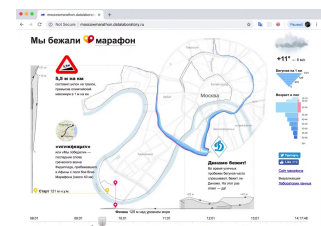
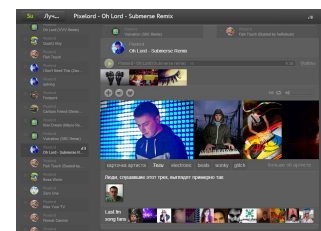
I'm really good at frontend apps that look & feel like desktop (web, electron, chrome extensions). Can make backend & CI to build & test from ground though.

90s speedrun video cv over my 14 years experience:

[https://youtu.be/T4NBv\\_8wYPs](https://youtu.be/T4NBv_8wYPs) (frontend part only)

## Impressive accomplishment

- 👤 Browser for work [meetsidekick.com](https://meetsidekick.com), (1st engineer)
  - 🏆 👤 #1 Product of the Day on Product Hunt (2020, Sidekick Browser).
  - 🏆 👤 #1 Product of the Week on Product Hunt (2020, Sidekick Browser).
- 🎧 Music app [seesu.me](https://seesu.me) (founder, hobby project; combines last.fm, soundcloud.com, hypem.com, discogs.com, etc)
  - 🏆 Tizen App Challenge - 2014
  - 🏆 Chrome Apps contest of Google technology User Group - 2010
  - 🏆 Opera Widgets Challenge - 2010
  - 👤 Prototype of integration with apps platform utorrent (download & listen from torrents)
  - 👤 Prototype of electron app with webtorrents lib (listen stream from files inside torrent)
- 🏃 Marathon visualization (Runners density graph along curve path)
- 😄 (Fun fact) I got \$50 amazon gift card from BitTorrent company. For unpurposely sharing know-how to play mp3/video inside IE6/IE7 engine. BitTorrent used that to monetize utorrent app (which has millions of users)
- ⚡ Found & highlighted memory leaks, suggest performance improvements to open source torrent protocol library
  - 🔗 [github.com/webtorrent/webtorrent/pull/382/files](https://github.com/webtorrent/webtorrent/pull/382/files)
  - 🔗 [github.com/webtorrent/webtorrent/issues/712#issuecomment-204273562](https://github.com/webtorrent/webtorrent/issues/712#issuecomment-204273562)
  - 🔗 [github.com/webtorrent/webtorrent/issues/115](https://github.com/webtorrent/webtorrent/issues/115)



# Experience

2022	Founder, Indie Hacker	Linkkraft
2019 · 2021	Principal Engineer	Sidekick Browser
2018 · 2019	Lead Developer	Leroy Merlin
2018	Lead Frontend Developer / Backend Developer	Motion Tailor
2016 · 2018	Frontend Developer / Backend Developer	Trucker Path
2014 · 2016	Lead Node.js Developer	EuroChem
2013	Frontend Developer	Datalaboratory
2011 · 2012	Frontend Developer	Mamba
2010 · 2011	Frontend Developer	Masterhost
2009 · 2010	Junior Frontend Developer	Thematic Media
2008	Junior Frontend Developer	Exigen Services StarSoft

## My public talks on conferences

- FrontendConf 2015, Declarative goal setting programming approach, [youtube.com/watch?v=vjMqtRG\\_cV8](https://youtube.com/watch?v=vjMqtRG_cV8)
- HighLoad++ 2012, Browser comet connections multiplexing library (javascript, localStorage) [youtube.com/watch?v=5TEaxF9KP9A](https://youtube.com/watch?v=5TEaxF9KP9A)

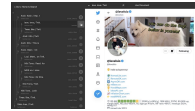
## Tech

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Git		•	•	•	•	•	•	•	•	•	•	•	•	•	•
HTML/CSS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
JavaScript		•	•	•	•	•	•	•	•	•	•	•	•	•	•
Chrome Extensions			•	•	•	•							•	•	
Node.js					•		•	•	•		•	•			•
Node.js streams API							•	•	•						
Electron								•				•			•
SVG						•	•				•			•	
React.js									•	•	•	•			
Redux									•	•	•				
MobX												•			
Webpack									•	•	•				
Svelte														•	•
Rollup												•	•	•	
TypeScript														•	
Puppeteer/WebDriver											•	•	•	•	
Clojure										•					
PostgreSQL										•	•				
MySQL							•	•	•						
MongoDB					•					•					
Docker										•	•	•	•		
WebSockets/XHR Long Polling					•							•	•	•	
WebWorkers												•	•	•	
IndexedDB													•	•	
Flash API		•	•		•										
ActiveX API				•	•										
CI SaaS										•	•	•	•	•	
Python										○					
AWS										○					
Sphinx Search								○							
Performance/Memory profiling			•	•	•	•	•					•	•	•	
LevelDB															•
After Effects SDK											•				

# Notable tech applying and limitations bypassing to make product

## Linkkraft, Browser to be effective researcher & collector

History tree visualization	2d Canvas, Electron API (as input)
Offline snapshots	Electron Content Scripts, Chrome Dev Tools Protocol
State persistence	LevelDB to save in-memory graph to disk



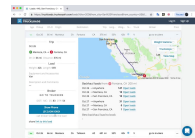
## Sidekick, Browser for work

Performance of early prototype (fork of Electron app)	Redesign architecture to 1. Use Electron Main/Render process & code separation 2. Use BrowserView instead of <webview>
CI to build & test Electron app	
Quick migration from Electron app to Chrome Extension (As part of moving from Electron to own Chrome fork)	Have prepared architecture
CI to build & test Chrome extension	
History text search (Chrome history is not suited for Sidekick case)	Chrome Extensions API, IndexedDB, Web Worker, performance profiling
Documents detection & global search	Extensions API Content Scripts, JSON with declaration, messaging, IndexedDB
Adblocker	Chrome Extensions API, RegExp
Live Sync for team workspace	Web Sockets (Pusher.js), Web Worker



## TruckerPath, most popular map app for truckers

Payment info receiving automation	Clojure/PostgreSQL. Bolt webhooks, Salesforce API
Lint Clojure code (CI)	Python
Backup PostgreSQL (CI)	Python, AWS



## Seesu

Play music inside Opera Widgets / Chrome extensions sandbox (No HTML5 audio, flash limitation)	Flash API, iframe messaging
Background playback & live sync for popup. (Popup is alive only when open)	State separation, message incremental changes of in-memory graph to popup, performance profiling
Fast rendering of Chrome Extensions popup (Limitations: Popup is alive only when open; when React is not created yet)	Transform incremental changes of graph state to DOM atomic changes, performance profiling
Allow to stream/play music from torrents	Btdigg.com, Electron, WebTorrents library, Node.js streams (pipe stream of file inside torrent from node.js part of electron to http request/response stream so chrome part of electron can play it)



## EuroChem

Provide near live updates for reporting system. Replace heavy (run once in day) SQL view by incremental updates	Node.js, MySQL. Hooks & dependency tracking inside proprietary MySQL driver. So, as soon someone commits changes to DB, we can track what dependency we should update & update it. Without need to rebuild whole report. (Hasura.io, but in 2015)
Fast download for big dumps of data	Node.js. Stream response of request (to Oracle db) to excel stream generating lib. User downloads file as soon as data received from DB.

## Marathon visualization

Show dynamic of marathon in time

JavaScript, SVG, performance profiling



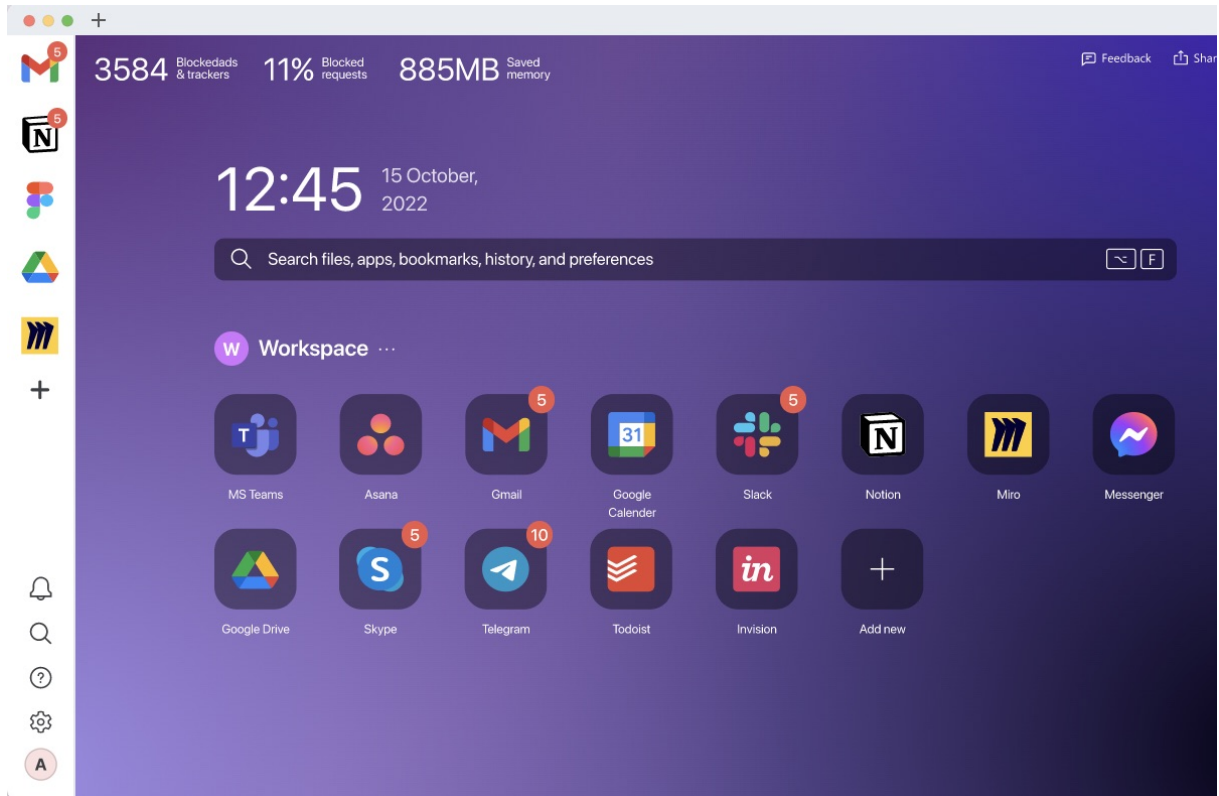
## Mamba

Provide live updates; Save costs for expensive live connections. (Limitations: IE still a thing, Shared Web workers is not stable yet at that time) Lib to share 1 long polling XHR across multiple tabs. Flash API, localStorage, XHR

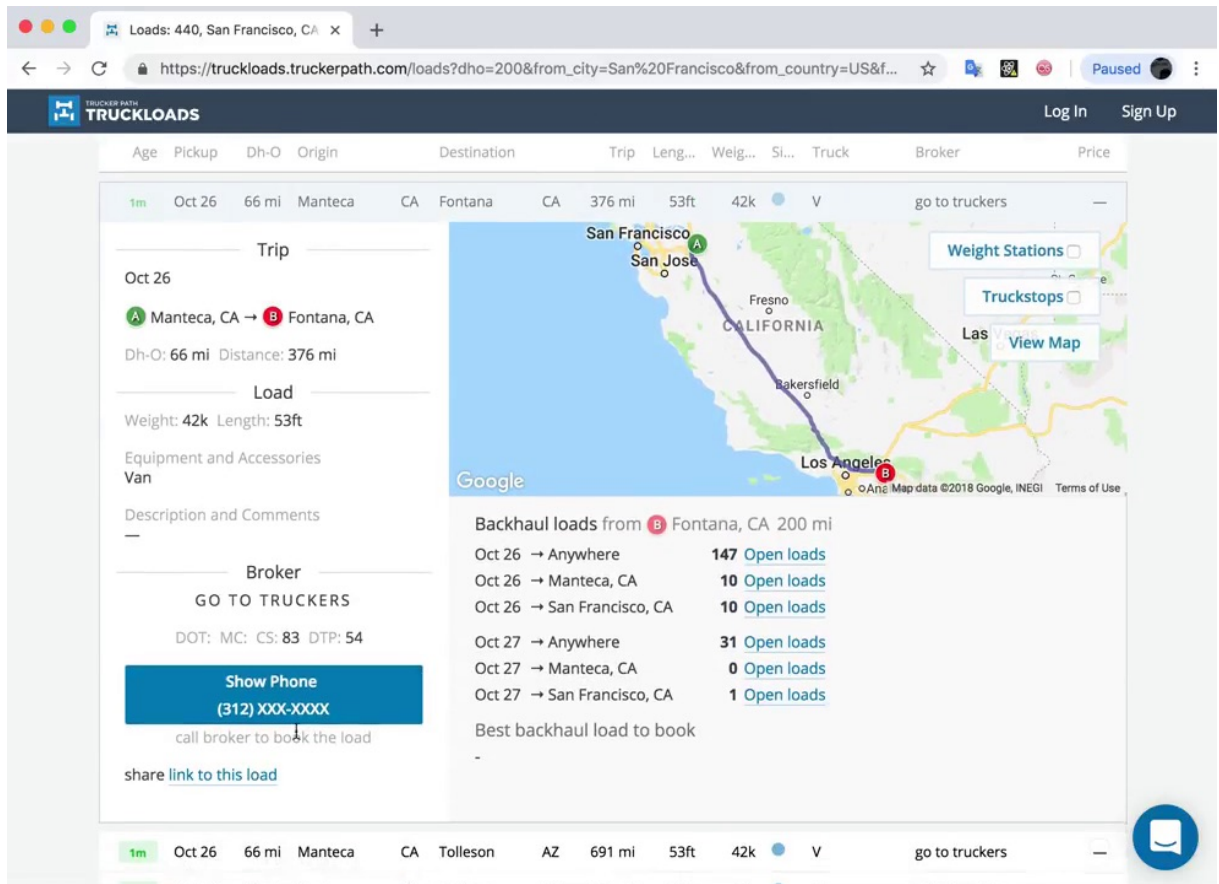
## Linkkraft, Browser to be effective researcher & collector

The screenshot shows a browser window with a dark theme. On the left, there is a sidebar with a list of links, each with a small circular icon. The selected link is "leve. leve./ Twit." by "levelsio". The main content area displays a tweet from @levelsio, which includes a video of a white dog with the text "you can do the ting! believ in yourslef". Below the tweet, there is a bio for @levelsio, identifying them as an "Indie solopreneur" and listing several websites: NomadList.com, RemoteOK.com, AsyncOK.com, reBase.co, HoodMaps.com, ideasAI.com, InflationChart.com, and readMAKE.com. At the bottom, there is a financial summary: "\$2.8M" (with a bar chart), "\$3M/y (+66%/y)", "15M MAU, 207M, 99.95% up, margin 86%, RO jobs 489/m, NL signups 418/m, MF ratio 48% F, meetups 36/m, rating 9.0", and "Joined Julv 2013".

## Sidekick, Browser for work



## TruckerPath Truckloads, Loadboard for truckers





Su Луч... Pixelord - Oh Lord - Submerse Remix

Pixelord Oh Lord (VVV Remix)

Pixelord Quartz Boy

Pixelord Fish Touch

Pixelord I Don't Need This (Zac...)

Pixelord solving

Pixelord Footpork

Pixelord Cartoon Friend (Demo...)

Pixelord Kiwi Dream (Milyoo Re...)

Pixelord Vulvatron (SRC Remix)

Pixelord Oh Lord - Submerse R...

Pixelord Fish Touch (Busted by...)

Pixelord Boss Worm

Pixelord Zero One

Pixelord Kiss Your TV

Pixelord Flower Cannon

Pixelord

Pixelord Vulvatron (SRC Remix)

Pixelord Fish Touch (Busted by heRobust)

Pixelord Oh Lord - Submerse Remix

Pixelord - Oh Lord (Submerse remix) vk 4:38 Файлы

карточка артиста **Tequ** electronic beats wonky glitch больше об артисте

Люди, слушавшие этот трек, выглядят примерно так

Last.fm song fans

### Marathon visualization

moscowmarathon.datalaborato x +

Not Secure | moscowmarathon.datalaboratory.ru

Мы бежали марафон

5,5 м на км оставил уклон на трассе, превысив олимпийский максимум в 1 м на км

«νεκικήκαρμεν» или «Мы победили» — последние слова греческого воина Фидиппида, прибывавшего в Афины с поля боя близ Марафона (около 40 км)

Старт 121 м н.у.м.

Финиш 125 м над уровнем моря

Динамо бежит! Во время уличных пробежек бегунов часто спрашивают, бежит ли Динамо. На этот раз ответ — да!

Тверское Китай-город Арбат Москва Хамовники Замоскворечье остров Балуэг

+11° ← 6 м/с

Бегунов на 1 км

1121
728
370
0

Возраст и пол

18-19
20-22
23-34
35-39
40-44
45-49
50-54
55-59
60-64
65+

Твитнуть Like 219

Сайт марафона

Визуализация Лаборатории данных

08:01 09:01 10:01 11:01 12:01 13:01 14:17:48