



KAMIL SZCZERBA

SOFTWARE ENGINEER

with a passion for theoretical problem-solving and aesthetics.

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EXPERIENCE

Jan '24 — Now

- Angular + TypeScript
- Z3 solver

GOOGLE CLOUD, Warsaw 🇵🇱 — Software engineer
From a complex product to an intuitive UI.

I am **leading a proposal** to automatically translate the **user's intent** into a set of changes in the state of a form by applying **logic programming** to requirements/incompatibilities between form choices. I also conduct **hiring interviews**.

Mar — Dec '23

PINBOT — PRIVACY-FIRST BROWSER EXTENSION WITH AI (getpinbot.com) 🇫🇷 — Founder
The world's first browser extension for privately searching one's history with natural language.

- Chrome extension ecosystem
- Other technologies listed below.
- Transformers.js
- Vector databases

Pinbot runs entirely offline in the user's browser, **unlocking protected markets**. It rose to the **front page of Hacker News**, and **several established investors expressed their interest** (Insight Partners, Pioneer). In addition to its users, Pinbot's discussion server has 30+ permanent members, enabling quick iteration with feedback from the community.

Nov '22 — Feb '23

COMMENT — PRIVATE SOCIAL NOTES APP 🇫🇷 / 🇷🇺 — Founder
Learning and solving challenges at an unprecedented pace.

- Vite.js
- React.js
- Web technology, such as: TensorFlow.js, WASM, Workers, etc.
- PostgreSQL
- SQLite
- TypeScript
- TRPC
- CRDT
- Tauri

Working on an app with **real-time collaboration**. No superfluous code, enabling a **'10x development' velocity** — e.g. simply adding an SQL query automatically generates a **type-safe** client API, deploys **across all platforms** (without Electron: lightweight and instant startup), and is processed locally for an **offline-first** experience, migrations included.

Jun — Oct '22

ARKHAM, London 🇬🇧 — Software engineer
Global crypto intelligence company with FAANG-level staff.

- Next.js
- TypeScript
- PostgreSQL
- Go API

Built from the **multi-terabyte database** to the UI: a drag-and-drop grid-based dashboard, full-text search, interactive financial charts, and a graph transactions visualiser. Upon seeing my work, an investor called the visualiser the **'key differentiator'** for the company.

Apr — May '22

APPTITUDE, Lausanne 🇨🇭 — Front-end engineer
Digital innovation agency within the EPFL campus.

Developed a dashboard for a high-tech boat-racing team to **make sense of the huge amount of data** recorded during their training — a **major advantage in the upcoming world championship**.

Jun — Jul '21

LIP6, Paris 🇫🇷 — Intern
Computer science institute researching the fundamental problems of applications.

- React.js + TS
- Capacitor
- Electron
- WebMIDI

Worked **iteratively with a customer** to build a **cross-platform** app to learn chords, from the specification design to the **public demonstration and talk**.

EDUCATION

2019 — 2022

SORBONNE UNIVERSITÉ, Paris 🇫🇷 — C.S. student
Top French computer science university.

Master's degree, 1st year: 1st/41 students — Bachelor's degree: 1st/194 students

- Advanced algorithms
- Adv. database models and languages
- Programming language development
- Logic and knowledge representation

SKILLS

French native.

English TOEFL 115/120 2020, when accepted by the University of Chicago.

React.js, CSS
Top 5% of LinkedIn test-takers.
I invented a CSS-only glass effect with refractions and reflections:



TypeScript I can make a non-exhaustive switch a type error and perform arithmetic with types.

Formal thinking
Rigorous thinking (static typing) + isomorphic translation into code (functional programming) = **no bugs**.

Technological watch
Hacker News comments, GitHub libraries, Discord, Papers With Code. I keep an eye on useful libraries and experiment with high-potential techs (solvers, NLP, etc.).

Design & typography
My wedding booklet can be checked at: szcerba.pages.dev.

Polymathic curiosity

Piano-playing
Especially Bach.