



ABOUT ME

Fullstack Developer specializing in **TypeScript** (React, Next.js, Node.js), I design and develop high-performance, robust, and scalable **web applications**.

LINKS

My portfolio:  
<https://www.viroun.dev>

My gihub:  
<https://github.com/virouncode>

SKILLS

TYPESCRIPT

REACT

NEXT.JS

NODE.JS

EXPRESS

TAILWIND CSS

EDUCATION

**MECHANICAL ENGINEERING DEGREE**  
ISAE-SUPMÉCA-Institut Supérieur de Mécanique de Paris / Paris / 2007

Lycée Saint-Louis / Paris / 2004

Preparatory Classes in Mathematics-Physics (MPSI/MP)

LANGUAGES

FRENCH

ENGLISH

HOBBIES

MUSIC, GUITAR, SIGNAL PROCESSING, TENNIS, ASTRONOMY

TIAO VIROUN  
KATTYGNARATH

REACT/NODE/NEXT.JS DEVELOPER

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WORK EXPERIENCE

**FM4ALL**  
PARIS  
Jan 2025 - Present

**Full-Stack Developer Next.js**

**Sector: Outsourced B2B Facility Services (cleaning, maintenance, security, etc.)**

Complete development of an innovative **B2B platform** for **fm4al**, centralizing facility management for SMEs/SMBs (one contract, one contact, one invoice).

Key achievements:

- Design and development of a **multilingual showcase** site (FR/EN), optimized for **SEO**.
- Creation of a **service comparator** with automated **online quotes and PDF generation**.
- Set up secure **back-offices for clients and providers** (contract management, schedules, rates...).
- Modeling and implementation of a robust **relational database**.
- Integration of **real-time notifications via Websockets** for interactive tracking of service rates.

Technical stack:

- Front-end:** React, Next.js 15, TailwindCSS, shadcn/ui, react-hook-form, next-intl, Zod
- Back-end:** Next.js 15 (API Routes & Server Actions), Drizzle ORM, better-auth, PostgreSQL, Sanity CMS
- DevOps:** Vercel (front + API), Neon.tech (DB), GitHub Actions (CI/CD), Vercel & Google Analytics (monitoring)

**CALVIN EMR: ELECTRONIC MEDICAL RECORDS**  
PARIS-TORONTO  
Jan 2023 - Present

**Full-stack Developer React/Node.js**

**Sector: Health / Medical Clinics – Ontario, Canada**

Full-stack development of **Calvin EMR**, a **SaaS medical management software** designed in close collaboration with a practicing physician. The platform centralizes patient records, appointment scheduling, internal messaging, e-fax, as well as assisted prescription and invoice writing. Integration of an artificial intelligence layer (OpenAI API) to automate certain clinical tasks.

Key achievements:

- Implemented **CRUD** for the medical records management system
- Developed a **shared calendar** for appointment scheduling.
- Implemented **WebSockets** for real-time updates (medical records, agenda, messaging...).
- Set up secure **authentication**, role management, and protected routes.
- Integrated **multi-channel notifications** (email, SMS).
- Developed an **internal messaging** system and an **e-fax** module for exchanges between practitioners.
- Integrated **AI assistance** (assisted writing of diagnostics and prescriptions).
- CSV export** for billing
- Export of medical data in **XML format** compliant with standards.

Technical stack:

- Front-end:** React (Vite), TanStack Query, SASS/SCSS, Yup
- Back-end:** Node.js (Express), Socket.IO (WebSockets), Xano, Yup
- Infrastructure:** Full-stack monorepo deployed on Heroku, Xano database, multi-tenant SaaS architecture

**STUDIO NOUVEL**  
Paris  
May 2025 - May 2025

**Frontend Developer Next.js**

**Sector: Music Production / Sound Design**

Design and development of the bilingual (FR/EN) showcase site for **Studio Nouvel**, a collective of composers, musicians, and sound engineers specializing in music for image, albums, and dubbing.

Key achievements:

- UI/UX Design:** creation of an immersive experience highlighting the studio's identity and services.
- Complete site **internationalization** (French / English) with next-intl.
- Multilingual **SEO optimization** to improve online visibility.

**Technical stack:** React, Next.js, TypeScript, shadcn/ui, next-intl

**TOOOL MUSIC PRODUCTION APP**  
PARIS  
Sep 2020 - Dec 2022

**C++ Developer / Co-creator – Tool (Mobile App iOS & Android)**

**Sector: Music / Mobile Audio**

Co-creation of **Tool**, a mobile music production app for musicians and producers to compose, mix, and export their tracks directly from their smartphone. The interface is inspired by professional audio plug-ins, while being optimized for smooth and intuitive mobile use.

Key features:

- Intelligent music generator for composition assistance.
- Over 460 chord progressions in all keys.
- 250 rhythmic patterns, 50 integrated sound packs.
- "Human Groove" feature for a more natural play.
- Step sequencer, mixer, and export MIDI, WAV, and stems.

Technical stack:

- Language: C++
- Framework: JUCE (cross-platform audio & UI framework)