

Youcef Rabia

Software Developer — JavaScript & C++ Expert

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PROFILE

Software developer with production experience across the JavaScript ecosystem — NestJS microservices, MERN, Next.js — and a strong low-level foundation in C, C++ and assembly. I build developer tools from scratch to master them: a JSON engine and two regex engines, published on npm. Open-source contributor to the official TypeScript website. Comfortable from hardware up to the browser.

EXPERIENCE

IT Manager — REGIIS Security 2025 – present

Part-time · Remote

- Build internal automations and maintain the company website and IT operations.
- Develop new digital services supporting the company's expansion into the hotel sector.

Full-Stack Developer & Social Media Manager — PluginDZ 2025 – present

Part-time

- Built and run a bilingual FR/AR (RTL) wholesale e-commerce platform end to end: Next.js 15 storefront and back-office over an Express + Prisma + PostgreSQL API.
- Manage the brand's social media presence alongside development.

Full-Stack Developer — Freelance (MERN) 2023 – 2025

- Two years of client work: React frontends, Node/Express APIs, MongoDB data layers — scoped, built, shipped and maintained solo.

Backend Developer Intern — Emploitic 2023 · 4 months

- Built NestJS/TypeScript microservices communicating over Kafka, shipped in Docker, backed by MongoDB and PostgreSQL.

SELECTED PROJECTS

vanilla-json — npm · github.com/MantasEdine/vanilla-json

JSON engine from scratch in pure JS: hand-written tokenizer, recursive descent parser, serializer. Matches native behavior including edge cases; ships with a self-built docs/tutorial site.

better-regex — npm · github.com/MantasEdine/better-regex

Regex engine from scratch: recursive descent parser + backtracking matcher, no native RegExp, full group nesting.

NFA-based regex engine — github.com/MantasEdine/NFA-based-regex-engine

The automata-theory counterpart: Thompson's construction, ϵ -transitions, no backtracking.

Everything About Pointers — github.com/MantasEdine/Everything-About-Pointers

Compile-everything C/C++ pointer reference with sanitizers, Makefile, CI and an htmx reader — adopted as study material by software engineering students at LETI, Saint Petersburg.

OPEN SOURCE

TypeScript official website — contribution accepted and validated by maintainer Jake Bailey.

SKILLS

Languages: JavaScript (expert), TypeScript, C, C++, Assembly, Python, SQL

Backend: Node.js, NestJS, Express, Kafka, Prisma, PostgreSQL, MongoDB

Frontend: React, Next.js, Tailwind, htmx

Tools: Linux (Arch), Neovim, Docker, Git, Make

Deployment: Vercel, Railway, Neon, Netlify

EDUCATION

Hydraulic Engineering

USTHB, Algiers

3rd year — current

Software Engineering

LETI, Saint Petersburg

2021 – 2023

CERTIFICATES

Full-Stack JavaScript Program

GoMyCode · Jan – Jun 2023

Just JavaScript

Dan Abramov · 2026

Learn JavaScript

Boot.dev · 2025

Learn Linux

Boot.dev · 2025

Introduction to Python

Boot.dev · 2025

Build a BookBot in Python

Boot.dev · 2026

SPOKEN LANGUAGES

Arabic native

English fluent

French fluent

Russian conversational

INTERESTS

Literature & philosophy (Dostoevsky), fine watchmaking (Vacheron Constantin, Patek Philippe, JLC Reverso), low-level systems and hardware.