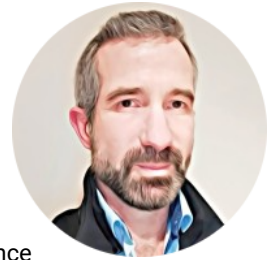# Siegfried Bozza

**M.Sc. | M.Eng. | Web Dev Bootcamp | Full-Stack Web Developer**

**5 years of work experience abroad** (Vancouver, Canada & Zurich, Switzerland)

Enthusiastic about building scalable web applications using JavaScript, TypeScript, React, Node.js/Express, and Next.js

Portfolio | Github | Linkedin

Paris, France
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siegfried.bozza@protonmail.com

## EXPERIENCE

### Freelance — *Full-Stack JavaScript Developer*

2023 - PRESENT

Building front-end and full-stack applications, using JavaScript, TypeScript, React, Next.js (13 & 14), Tailwind.css, Node.js, Express, and MongoDB.

Currently contributing to the front-end development of the DeXter-on-Radix open source project.

### Renuo, Zurich Switzerland — *Full-Stack Developer Intern*

2022 - 2023

Contributed to the development of web applications using Ruby on Rails, JavaScript, TypeScript, React, CSS, Saas, Bootstrap, Tailwind.css. Implementation of various features using Google Maps. Engaged in both frontend and backend development tasks, including test coverage Improvements with RSpec.

### Freelance, France — *Private Teacher*

2020 - 2022

Provided student tutoring in Physics and Chemistry.  Started to study web development.

### Kibag Gruppe, Switzerland — *Land Remediation Project Manager*

2019 - 2020

Managed land remediation projects, including subcontractor coordination, scheduling, permitting, project controls, and regulatory compliance.

### Suez & Serpol, France — *Land Remediation Engineer*

2014 - 2018

Conducted environmental assessments, groundwater pollution modeling, and remediation. Coordinated subcontractors and managed technicians.

### University of British Columbia, Canada & INSERM, France — *Research Associate Molecular Biology*

2002–2004 (Canada) & 2005–2009 (France

Conducted R&D in academic laboratories, data analysis, student mentoring, collaboration within international teams resulting in three peer-reviewed publications.

## SKILLS

**Languages**: JavaScript, TypeScript

**Frontend Libraries**: React (React Router, React Query, React Hook Form, React Select, Zustand)

**Design and Styling:** Responsive Design, Tailwind CSS

**Backend Frameworks**: Node.js (Express.js), Next.js

**Database:** MongoDB

**Validation:** Zod

**Testing:** Cypress, Jest, Supertest

**Version Control**: Git

## LANGUAGES

French - Mother tongue

English - Fluent

German -B1

## PUBLICATIONS

Dev. Biol. J.— PubMed.gov
Published epigenetic studies in mammals..

Neuro. J.— PubMed.gov
Published neural stem cell studies.

Fungal Gen. J.— PubMed.gov
Published studies on invasive fungi species in Canadian forests.

## INTERESTS

Music, Reading, Travelling, Surfing, Snowboarding

**'Le Wagon' Bootcamp,** Zurich Switzerland — *FullStack Web Development*

April 2022 - June 2022

Completed an intensive program focused on full-stack web development, including HTML, CSS, JavaScript, and Ruby on Rails. Developed hands-on experience by building a full-stack application and collaborating on a team project.

**Zigurat Business School,** Spain/Remote — 'Master's degree' *in blockchain technologies*

2021 - 2022

Gained knowledge of blockchain technologies, including smart contracts and decentralized applications (dApps). Conducted research projects to explore practical applications of these technologies.

**Ecole des Mines,** France — *M.Eng. Civil & Environmental Engineering*

2009 - 2012

Studied at a renowned French engineering school, completing a program that included Mathematics, Physics, Thermodynamics, and Chemistry, with a major in Civil and Environmental Engineering.

**University of Montpellier,** France — *M.Sc. Molecular Biology*

1996 - 2001

Specialized in molecular biology techniques and research methodologies.

**WEB DEVELOPMENT ONLINE COURSES** (2021 - 2024)

**JavaScript Algorithms & Data Structures** (Udemy): Ongoing since July 2024. Covers Big O notation, searching & sorting algorithms, and data structures.

**Next.js** (JSM): Hands-on training in Next.js including routing, server-actions, authentication (Clerk), real-time event handling with webhooks, and MongoDB integration. Developed responsive design, implemented forms with React Hook Form and Zod validation, and integrated third-party APIs (question-answer automation using Eden AI). Refactored project and added custom hooks.

**React & Next.js** (Udemy): Comprehensive course covering React, React Router V6, React Query, Optimistic UI, React Hook Form, React Select, Zod validation, and Next.js. Implemented projects including authentication (Google Provider), webhooks for Stripe payments, and MongoDB integration.

**Node & Express.js** (Udemy): Node.js & Express with a focus on building server-side rendered web applications. Refactored the main project with TypeScript, converted it into a RESTful API, implemented Jest & SuperTest for testing, and documented with Postman. Built a React SPA consuming the API, tested with Cypress.

**TypeScript** (Udemy): Practical training emphasizing TypeScript in React projects.

**JavaScript** (Udemy): Comprehensive theoretical and practical course covering Vanilla JS (ES6, OOP, asynchronous JS, event loop, call stack…).

**Advanced CSS** (Udemy): Hands-on projects using Vanilla CSS.

**Cypress** (Udemy): Short course for getting started with Cypress for testing.

**Testing Ruby with RSpec** (Udemy): Introduction to testing with RSpec for Ruby applications.

**Other CSS, JavaScript & React courses** (WDS).

Portfolio | Github | Linkedin