

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](#)



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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 and Bootstrap.

Engaged in both frontend and backend development tasks, including writing tests using 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, 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

EDUCATION

'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

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

Next.js ([JSM](#)): Completed June 2024. 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](#)): April-June 2024. 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](#)): January-March 2024. 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](#)): Completed December 2023. Practical training emphasizing TypeScript in React projects.

JavaScript ([Udemy](#)): October-December 2023. Comprehensive theoretical and practical course covering Vanilla JS (ES6, OOP, asynchronous JS, event loop, call stack...).

Cypress ([Udemy](#)): September 2023. Short course for getting started with Cypress for testing.

Advanced CSS ([Udemy](#)): August 2023. Hands-on projects using Vanilla CSS.

Testing Ruby with RSpec ([Udemy](#)): August 2022. Introduction to testing with RSpec for Ruby applications.

Other CSS, JavaScript & React courses ([WDS](#)): From 2021 to 2023.

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