Siegfried Bozza

M.Sc. Biology | M. Civil Eng. | Web Dev Bootcamp

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, France — *Full-Stack JavaScript Developer*

2023 - PRESENT

Building frontend and full-stack applications, using JavaScript, TypeScript, React, Next.js, Tailwind.css, Node.js, Express, and MongoDB.

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

2022 - 2023

Assisted in developing 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 learn 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.

INSERM (french NIH), France — *Research Associate Molecular Biology*

2005–2009

Conducted R&D in the endocrine-disruptors and neural stem cells laboratories, resulting in one peer-reviewed publication.

University of British Columbia, Canada — *Research Associate Molecular Biology*

2002–2004

Conducted R&D in forestry and epigenetics laboratories, resulting in two 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 - C1

German -B1

PUBLICATIONS

Dev. Biol. J.— PubMed.gov
Published epigenetic studies in mammals, with an international team.

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

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

INTERESTS

Music, Reading, Travelling, Surfing (Bali), Snowboarding (Switzerland)

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), through a tuition-free program. Conducted research projects to explore practical applications of blockchain technologies.

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

2009 - 2012

Studied a general engineering program encompassing Mathematics, Physics, Thermodynamics, and Chemistry, with a major in civil and environmental engineering. Focused on environmental assessments, groundwater pollution modeling, and remediation. Completed a capstone project on innovative solutions for environmental challenges.

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 ('[JavaScript Mastery](#)'): 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 ([Web Dev Simplified](#)): From 2021 to 2023.

[Portfolio](#) | [Github](#) | [Linkedin](#)