

# Sami Bentaiba

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## Summary

### Software Engineer

I'm a software engineer who evolved from a computer science student into a full-stack developer, then into a software architect and team lead. My journey has taken me through every stage of software creation — from learning computer fundamentals, algorithms, and system design, to mastering multiple programming languages and building complete software solutions. As an architect, I learned to design and implement scalable patterns and system plans, and as an operator, I developed workflows and maintenance strategies to ensure long-term software quality. Through this continuous growth, I've become a software engineer capable of planning, creating, and improving entire systems — bridging the gap between development, architecture, and operational excellence.

## Skills

### Development Operations

**Pipeline Manipulation (Applied):** Using ngrok for exposing local servers and manipulating pipelines for webhook testing. Used effectively in the AiHorizons project.

**Vercel (2+ years):** Vercel is a deployment and collaboration platform for frontend developers. I use Vercel to deploy and host web applications, leveraging its serverless functions and edge network.

**Linux Ecosystem (Mastered):** Deep mastery of distributions like Arch, Ubuntu, Fedora, Debian, Kali, Mint, and Nix. Proficient in shell scripting and system configuration.

### Frontend Development

**React (2+ years):** React is a JavaScript library for building user interfaces. I've used React extensively to build single-page applications and components within Next.js projects, focusing on component-based architecture and state management with hooks and context API.

**Next.js (2+ years):** Next.js is a React framework that enables server-side rendering and static site generation. I've used Next.js to build performant and SEO-friendly web applications, leveraging its file-based routing system and API routes in projects like my portfolio, ITC Hub, and Algis.

**TypeScript (2+ years):** TypeScript is a strongly typed programming language that builds on JavaScript. I use TypeScript in most of my projects (portfolio, c-studio, algis, itc-hub) to ensure type safety and improve developer experience.

**Tailwind CSS (2+ years):** Tailwind CSS is a utility-first CSS framework. I use Tailwind CSS to rapidly build custom designs without leaving HTML, focusing on responsive design and component consistency in my Next.js projects.

**shadcn/ui (1+ year):** A collection of re-usable components built using Radix UI and Tailwind CSS. I use it to build accessible and customizable UIs in my Next.js projects.

**HTML & CSS (3+ years):** Core web technologies for structuring and styling web content. Used in all web-based projects.

**Vite (1+ year):** Vite is a build tool that aims to provide a faster and leaner development experience for modern web projects. I use it for my React projects.

**Angular (<1 year):** Angular is a platform for building mobile and desktop web applications. I have experience with it through the H2-SpringBoot project.

**Electron (1 year)**: Electron is a framework for creating native applications with web technologies like JavaScript, HTML, and CSS. Used to build the C-Studio IDE.

## Backend Development

**Node.js (2+ years)**: Node.js is a JavaScript runtime built on Chrome's V8 JavaScript engine. I've used Node.js for server-side logic in Next.js applications and for scripting, including within the c-studio Electron project.

**Express (1+ year)**: Express is a minimal and flexible Node.js web application framework. Used for building RESTful APIs.

**Prisma (1+ year)**: Prisma is a next-generation ORM for Node.js and TypeScript. I use Prisma to interact with databases (PostgreSQL and SQLite) in projects like ITC Hub and Algis.

**Spring Boot (1+ year)**: Spring Boot is an open source Java-based framework used to create a micro Service. I use it to build robust and scalable backend services.

**Next.js (2+ years)**: I leverage Next.js for full-stack development, utilizing API Routes and Server Actions to build secure and scalable backend logic directly within the application.

**NextAuth.js (1+ year)**: A complete open-source authentication solution for Next.js applications. I use it to handle secure user authentication and session management.

## Programming Languages

**TypeScript (Familiar)**: My primary language for web development, ensuring type safety and code quality.

**JavaScript (Familiar)**: Deep understanding of ES6+ features and the core language concepts.

## Architecture & Documentation

**Figma (Collaborative)**: Learned through collaboration with UI/UX designers to implement pixel-perfect designs and understand design systems.

## Experiences

### Software Engineer

*Self-employed/Freelance*

2023 - Present · Remote

- Mosquito Killer DZ - High-conversion landing page
- COD Simulation - E-commerce ROI calculator
- Remdani Dental Center - Clinic website

### Active Member & Developer

*ITC Programming Club*

2024 - Present · Algiers, Algeria

- ITCP Website
- ITC Talks Platform

### Frontend Developer

*CSE USDB promo 2023*

2024 · Algiers, Algeria

- CSE Hub

## Projects

**COD Simulation Dashboard** (Next.js, TypeScript, Tailwind CSS, shadcn/ui, Lucide React, Frontend, Software Engineer)

Built this tool to help e-commerce business owners visualize their expenses and profits. It focuses on providing a clear, real-time financial overview.

<https://calculator-delta-flax.vercel.app>

<https://github.com/samibentaiba/calculator>

**Mosquito Killer DZ** (Next.js, React, Tailwind CSS, shadcn/ui, System Architecture, Technical Documentation, Frontend, Software Engineer)

Designed to maximize conversion rates for a local e-commerce product. Focused on speed, mobile responsiveness, and a frictionless checkout process.

<https://mosquito-killer-2.vercel.app>

<https://github.com/samibentaiba/mosquito-killer-2>

**Algis** (Next.js, React, TypeScript, Prisma, PostgreSQL, NextAuth.js, Tailwind CSS, shadcn/ui, Linux Ecosystem, System Architecture, Technical Documentation, Full Stack, Backend, Software Engineer)

Working on Algis for a client in the agricultural sector has been a rewarding experience. The project involves complex data modeling with Prisma to handle UAPs, livestock, machinery, crops, and their relationships. I'm building a modern full-stack dashboard that replaces manual Excel-based workflows with a dynamic web application featuring authentication and role-based access. The repository is private due to client terms of service.

<https://algis-preview.vercel.app>

**C-Studio** (Electron, TypeScript, React, MinGW-w64, Node.js, Windows, Linux Ecosystem, System Architecture, Technical Documentation, Software Engineer, Desktop Development)

Building C-Studio was an exciting journey into desktop application development with Electron. The biggest challenge was bundling the MinGW compiler and ensuring it works seamlessly without any system configuration. I focused on creating a user-friendly experience for beginners learning C programming, with features like instant compilation and interactive terminal support.

<https://github.com/samibentaiba/c-studio>

**ITC Hub** (Next.js, React, TypeScript, Tailwind CSS, shadcn/ui, Prisma, PostgreSQL, NextAuth.js, React Hook Form, Zod, Nodemailer, Recharts, Linux Ecosystem, System Architecture, Technical Documentation, Full Stack, Backend, Software Architect)

Developing ITC Hub was a deep dive into full-stack Next.js development. The biggest challenge was designing the relational database schema with Prisma to handle complex relationships between users, departments, teams, and tickets. Implementing role-based access control (RBAC) with Next-Auth was a critical feature to ensure data security. This project solidified my skills in building secure, scalable, and data-intensive web applications.

<https://itc-hub.vercel.app>

<https://github.com/samibentaiba/itc-hub>

**Remdani Dental Center** (React, Node.js, Tailwind CSS, Linux Ecosystem, Frontend)

Collaborated as a Frontend Developer on this project, working closely with the backend developer and deployment lead. I also contributed to the backend development with small commits, gaining exposure to the full stack.

<https://ramdani.vercel.app>

<https://github.com/ismail-devmaster/finalProjectFe>

**Sunrise Energy** (Next.js, TypeScript, Prisma, Tailwind CSS, shadcn/ui, Frontend, Software Engineer)

This project allowed me to focus on creating a professional and visually appealing interface for a corporate client. I utilized Next.js for performance and SEO, ensuring the site is fast and discoverable.

<https://github.com/samibentaiba/sunrise-energy>

**AiHorizons** (React, TypeScript, Tailwind CSS, Vite, Figma, Pipeline Manipulation, Frontend)

This was a high-intensity project where I collaborated closely with a backend developer and a UI/UX designer to deliver a polished product in a very short timeframe. It tested my ability to work under pressure and coordinate effectively with a team.

<https://ai-horizons.netlify.app>

<https://github.com/samibentaiba/AiHorizons>

**ITC Talks** (Next.js, TypeScript, Tailwind CSS, shadcn/ui, Figma, Frontend)

Collaborated with a UI/UX designer to bring the vision of ITC Talks to life. Focused on creating an engaging user experience and a seamless content management flow.

<https://itc-talks.vercel.app>  
<https://github.com/samibentaiba/itc-talks>

#### **ITCP** (React, Vite, CSS, Figma, System Architecture, Technical Documentation, Python, Frontend)

Worked as a Frontend Developer in a team with a backend developer and a UI/UX designer. This project enhanced my teamwork skills and my ability to integrate frontend components with backend APIs.

<https://itc-programming.netlify.app>  
<https://github.com/samibentaiba/ITCP>

#### **CSE Hub** (React, Vite, Figma, Frontend)

My first significant project as a Frontend Developer. I collaborated with a UI/UX designer to translate designs into code, laying the foundation for my career in software engineering.

<https://cse-hub.netlify.app/home>  
<https://github.com/samibentaiba/cse-hub>

#### **Microservices & DevOps** (Java, Spring Boot, Angular, H2 Database, Microservices, Linux Ecosystem, System Architecture, Technical Documentation, Backend, DevOps)

Expanded my skillset into backend and DevOps by working with Java Spring Boot and microservices. This project gave me a deeper understanding of full-stack architecture and database management.

<https://github.com/samibentaiba/H2-SpringBoot>

#### **iShowOff** (Rust, GitHub Actions, CI/CD, Linux Ecosystem, IDEs & Editors, System Architecture, Technical Documentation, DevOps)

This was a valuable learning experience with GitHub Actions. By forking and customizing this project, I gained hands-on experience with CI/CD pipelines, automated releases, and integrating dynamic content into my GitHub profile README.

<https://github.com/samibentaiba/ishowoff>

## **Education**

### **B.S. in Computer Science**

University of Technology, 2015-2019