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.

Git & GitHub (3+ years): Git is a distributed version control system. I use Git and GitHub daily for version control, collaboration, and managing code changes across projects, including using GitHub Actions for CI/CD.

GitHub Actions (1+ year): Automating software workflows with CI/CD pipelines directly in GitHub. I use it for automated testing and deployment.

CI/CD (Applied): Continuous Integration and Continuous Deployment practices to automate the software delivery process.

Docker (1+ year): Docker is a platform for developing, shipping, and running applications in containers. Used to create consistent development environments.

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.

Programming Languages

Bash (Familiar): I use Bash scripting for automation and managing development environments.

IDEs & Editors (Mastered): Mastery of Neovim, VS Code, and Nano with custom keybinds, LSP tuning, and profiles. Experienced with JetBrains, Emacs, and CodeBlocks. I maintain a custom Neovim config (github.com/samibentaiba/nvim).

Experiences

Active Member & Developer
ITC Programming Club
2024 - Present · Algiers, Algeria

• ITCP Website

• ITC Talks Platform

Projects

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

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