

Islem Bargaoui

Full-Stack Engineer

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◦ Skills & Technologies ◦

Frontend Development

React | Next.js | Angular

Backend Development

Node Express | Nest.js | Python |
RESTful | SQL

DevOps

Docker | CI/CD

Cloud

Digital Ocean | Virtualization |
Serverless Architecture

Git | Github

System Design

Clean Coding | Design Principles |
Monolithic Architecture | High
performance | Scalability

SCRUM

Scrum ceremonies |
Documentations | Scrum Artifacts

◦ Languages ◦

Arabic

Native

English

Fluent

French

Intermediate

◦ Education ◦

Higher Institute of Information and Communication Technologies


Software Engineering and
Computer Systems
Bachelor's Degree


Sep 2019 – Jun 2023

Tek-Up University

Software Engineering
Engineer's Degree
Sep 2023 – present

Profiles

 [Islem Bargaoui](#)

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Summary

I'm an adaptable Full-Stack Developer with a strong foundation in web development specializing in **React/Angular, Node** Development.

I am passionate about technology and have expanded into DevOps, game and mobile development.

My adaptability and eagerness to learn help me quickly master new technologies.

I aim to lead innovation and push digital boundaries in the evolving IT field.

Experience

CodeCooperation | Full time

Full-Stack Developer

August 2023 – July 2024

- Developed scalable, user-friendly web applications using **Next.js** and **Nest.js**.
- Improved performance and stability with server-side rendering.
- Created a maintainable codebase using features like dependency injection and routing.
- Designed scalable components, ensuring easy feature additions and system integrity.
- Enhanced **CI/CD** processes with **GitHub Actions** and improved GitHub/Jira integration.
- Implemented unit and integration tests to ensure code/feature quality.

CodeCooperation | Internship

Full-Stack Developer

February 2023 – August 2023

- Developed a performant and responsive job portal using **Next.js** and **Nest.js**.
- Integrated **STRIPE** as a secure payment gateway.
- Built a clean, maintainable backend with code best practices.
- Offered weekly training sessions on development tools like OpenCommit and OpenAPI.

Freelance

Developer

Tunis

2020 – Present

- **PFE:** Developed multiple End-Of-Study projects for students using various technologies.
- **Web projects:** Created a music streaming and ticket-based customer support platforms with **Angular** and **Node Express/NextJS**.
- **Internal Software:** Developed internal software for BELDEN's fiber optic management system, analyzing, and cleaning data using **Python** and **NextJS**.

◦ Other Projects ◦

BELDEN PPC software – Data Science Software

- Developed **Python** software for BELDEN to manage and test fiber optic lines.
- Used **Pandas** for analyzing and cleaning large datasets.
- Implemented robust data manipulation techniques for accuracy.
- Generates organized Excel files for insights.
- Utilized **Next.js** for seamless frontend data upload/download.
- Currently automating data collection from test machines to improve efficiency.

Tekdheb Online – Multiplayer Card Game (PWA)

- Developed a multiplayer **PWA** for the Tunisian card game "Tekdheb."
- Utilized **NestJS** for robust backend logic.
- Implemented **NextJS** with **NextUI** and **Framer Motion** for a visually engaging user experience.
- Planned future features include user accounts, leaderboards, and AI-powered matchmaking.

PWA, NextJS, NestJS, Prisma ORM, Docker, framer-motion

Sacha App – Digital Discount Voucher Platform (PWA) 🌐

PWA platform enabling restaurants to distribute discount vouchers to patrons.

NextJS, NestJS, Prisma ORM, MySQL, Docker, Digital ocean, S3

Projects

Senioren Platz Finder – Web App 🌐

Development

- **Tech Stack:**
 - Developed with **Next/Nest** (TypeScript).
 - Utilized **Prisma ORM** for SQL database management.
 - Employed **OpenAPI/Swagger** for API documentation and services generation.
- **White Label Solution:** Implemented a customized White Label Solution with a unified codebase and database setup. Integrating **Material UI theming** for customizable color integration.
- **CI/CD Pipelines:** Automated branch deployment and creation workflows with JIRA integration using GitHub Actions CI/CD pipelines.
- **Admin Panel:**
 - Implemented a **State Machine** feature in the admin panel to visualize relationship statuses between care seekers and facilities.
 - Facilitated efficient management and monitoring of user interactions.
 - Optimized administrative workflows and decision-making processes.

NextJS, NestJS, Prisma ORM, OpenAPI, Tailwind CSS, Material UI, CI/CD Pipelines

Cyber Maturity Assessment Tool – CMAT 🌐

- Developed a web-based Cyber Maturity Assessment Tool (CMAT) using **NestJS/NextJS**, and managed data with **Prisma ORM**.
- Conducts security evaluations with assessments.
- Estimates the financial impact of cyber threats based on completed assessments.
- Uses **nest-crawler** for dynamic threat intelligence from web scraping.
- Includes a **dashboard** for tracking assessments and visualizing security progress.

TippJob – Web App 🌐

Development

- Created **TippJob**, a user-friendly job search platform.
- Used **Next.js** for the front-end and **Nest.js** for the back-end.
- Managed MySQL database with **Prisma ORM**.
- Integrated **Mailjet** for email functionality.
- Integrated **STRIPE** for secure payment processing.
- Ensured reliability and scalability with a well-structured codebase.

NextJS, NestJS, Prisma ORM, MaterialUI, Stripe, Mailjet, OpenAPI