Islem Bargaoui

Full-Stack Developer

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○ Skills & Technologies ○

DevOps
Kubernetes | Docker | CI/CD | Infrastructure as Code (IAC) | Automation

Git
version control with github

Frontend Development
React | Next.js | Angular | Dart Flutter | performance | Stability | Scalability | Responsiveness | Clean Coding

Backend Development
Node Express | Nest.js | Spring Boot | Clean Architecture | Design Principles | RESTful | SQL | Security | Scalability

Cloud
AWS | Azure | Virtualization | Serverless Architecture Resource Management

System Design
Clean Architecture | Design Principles | Scalability | Microservices | Monolithic Architecture | High Availability | Load Balancing

SCRUM
Scrum ceremonies | Documentation | 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

in **Islem Bargaoui**　　　　　○ **Islem Bargaoui**

Summary

Versatile and forward-thinking Full-Stack Web Developer with a strong foundation in web development architecture. I am passionate about technology and have expanded into game and mobile development and graphic design. My quick adaptability and thirst for knowledge drive me to master new technologies swiftly. In the evolving IT field, I strive to lead innovation, exploring new frontiers and continually pushing the boundaries of the digital world.

Experience

CodeCooperation | Full time 🌐
Full-Stack Developer
Aug 2023 - Present

- Developed a scalable and user-friendly web applications using **Next.js** for the front end and **Nest.js** for the back end.
- As a full-stack Developer I improved performance and stability of web solutions using static site generation and **server-side rendering**
- I created a well-structured and maintainable code base using **Nest.js**'s features, such as **dependency injection** and **routing**.
- Designed scalable, **single-purpose** components applying fundamental software architecture principles and ensuring easy feature additions and system integrity.
- Enhanced the Github/Jira integration and deployment process through CI/CD and github actions
- Implemented **unit tests** and **integration tests** to ensure the quality of the code.

CodeCooperation | Internship 🌐
Full-Stack Developer
Feb 2023 - Aug 2023

- Created a well maintained, performant and responsive job portal platform TippJob using **NextJS** and **NestJS**.
- **Collaboration**: Worked closely with cross-functional teams to gather requirements and ensure seamless user experience.
- **Payment Integration**: Integrated STRIPE as a secure and efficient payment gateway.
- **Backend Development**: Developed a clean and maintainable codebase, implementing security best practices to ensure stability.
- **Knowledge Sharing**: Conducted weekly training sessions to educate colleagues on development tools like OpenCommit and OpenAPI.

Projects

Freelance
Developer
2020 - Present
Tunis

- **PFE**: Developed multiple End-Of-Study projects for students using NextJS and Node Express.

- **Music Streaming**: Created a music streaming platform with Angular and Node Express.

- **Customer Support**: Built a ticket-based customer support platform using Angular and NestJS.

- **Internal Software**: Developed internal software for BELDEN's fiber optic management system, preparing, analyzing, and cleaning data using Python and Next.js.

MAE | Internship
Full-Stack Developer
June 2022 - Aug 2022
Tunis, Tunisia

- Developed a client interface for online contract creation and payment using NextJS and Node Express.

TippJob - Web App ⊕
Development

- Developed TippJob, an innovative job search platform with a streamlined application process.

- Front-end built with **NextJS** and back-end with **NestJS** (TypeScript).

- Managed database using **MySQL** with **Prisma ORM**.

- Integrated **Mailjet** for email functionality.

- Implemented a one-click application process for enhanced user experience.

- Created a "blackboard" for time-sensitive job postings active for 48 hours to meet urgent hiring needs.

- Integrated **Stripe** for comprehensive payment processing (sessions, callbacks, and webhooks).

- Ensured reliability and scalability with a clean codebase.

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

Senioren Platz Finder - Web App ⊕
Development

- **Tech Stack:**

  - Developed with **NextJS** and **NestJS** (TypeScript).

  - Utilized **Prisma ORM** for SQL database management.

  - Employed **OpenAPI** for API documentation.

  - Integrated **Tailwind CSS** and **Material UI** for seamless UI design.

- **White Label Solution:**

  - Implemented a sophisticated White Label Solution feature using a single codebase and database architecture, designed meticulous schema and attribute differentiation for unique branding, and ensured data isolation and security.

  - Utilized **Material UI theming** for customizable color integration, allowing brand creators to tailor the platform to their visual identity.

- **CI/CD Pipelines:** Engineered automated branch deployment and creation workflows with JIRA integration, using GitHub Actions CI/CD pipelines. This streamlined testing and deployment of individual features, enhancing team collaboration and efficiency.

- **Notable Features:** Chat functionality dynamically influences the filtering process based on conversations between care seekers and facilities.

- **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** and **NextJS**, with **Prisma ORM** for data management.

- Conducts comprehensive security evaluations with an 80-question assessment.

- Estimates financial impact of cyber threats based on user assessments.

- Utilizes dynamic threat intelligence through nest-crawler for up-to-date threat information from net **scraping**.

- Features a user **dashboard** for tracking assessments and visualizing security progress.

Security evaluations, Financial impact estimation, Dynamic threat intelligence, User dashboard, Prisma ORM, NestJS, NextJS

Sacha App - Digital Discount Voucher Platform 🌐
Development

PWA platform enabling restaurants to distribute discount vouchers to patrons.

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

Tekdheb Online - Multiplayer Card Game (PWA)

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

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

BELDEN PPC software - Data Science
Software

- Developed **Python** software for BELDEN to manage and test fiber optic infrastructure.

- Utilized **Pandas** for data analysis and cleaning of large datasets, such as light, preparation, and geographic tests.

- Implemented robust data manipulation techniques for accurate processing.

- Generates organized Excel files for actionable insights.

- Utilized **NextJS** for frontend development, enabling seamless data upload.

- Working on automating data collection from test machines to streamline the process.

Python, Pandas, data analysis, data cleaning, NextJS

Systems Experience

DevOps
TippJob

- Managed software design and DevOps across multiple projects During my tenure.

- Leveraged **DigitalOcean** as the cloud provider and **DigitalOcean Spaces** for scalable data storage.

- Utilized **Docker** for application packaging to ensure easy deployment across different environments.

- Employed **NGINX** for efficient web traffic handling and load balancing across servers.

- Automated development processes using **GitHub Actions**, enhancing speed and reliability.

- Monitored system performance with **New Relic**.

- Implemented **Uptime Kuma** for continuous server health monitoring across various projects.

- Integrated **Dozzle** for real-time monitoring and logging of Docker container activities across frontend and backend deployments.

DigitalOcean, DigitalOcean Spaces, Docker, NGINX, GitHub Actions, New Relic