

Ibrahim BEN LAKHAL

Software Engineer - Recent Graduate in Computer Engineering

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EDUCATION

Master Degree in Computer Engineering National School of Engineers of Sfax

📅 Sep. 2021 – Jun. 2024 📍 Sfax, Tunisia
Mention : very good

Pre-Engineering Degree in Mathematics and Physics Preparatory Institute for Engineering Studies in Sfax

📅 Sep. 2019 – Jun. 2021 📍 Sfax, Tunisia
Ranked in the top 20 % In the National Exam for Entrance to Engineering Schools.

PROFESSIONAL EXPERIENCE

Software Engineer Telnet

📅 Jul. 2024 - current 📍 Sfax, Tunisia

- Contributed to the enhancement of a three-layer payment host gateway for Ingenico's payment solution integration.
- Improved WebSocket features by applying SOLID principles, design patterns, and leveraging the latest C++ features.
- Managed the development cycle using SVN for version control and the CI/CD processes using Bamboo.

Skills : Python, C/C++, Docker, SVN, Bamboo, Git

End of studies internship - Software Engineer Intern ReDX (Revolutionary Digital Transformation Technologies)

📅 Feb. 2024 - Jun. 2024 📍 Sfax, Tunisia

Optimization of NextVision, an application for seismic data interpretation, achieving a 5.39x improvement in execution time.

- Studied and analyzed existing algorithms in NextVision.
 - Created a Docker environment to ensure portability and simplify application deployment.
 - We used the RAPIDS suite, including RMM, RAFT, Thrust, and cu-Graph, for GPU graph management.
 - Developed a hybrid CPU-GPU algorithm, resulting in a significant execution time improvement of 5.39x.
- Skills : cuGraph, CMake, C/C++, Docker, Podman, OpenMP

Technician Internship - DevOps Engineer Intern ReDX (Revolutionary Digital Transformation Technologies)

📅 Jun. 2023 - Aug. 2023 📍 Sfax, Tunisia

Developed an online training platform achieving a 30 % reduction in cloud computing costs.

- Designed and deployed an AWS Lambda function for efficient scaling and cost management.
- Developed an intuitive dashboard that enables super administrators and managers to monitor platform operations, course progress, and user engagement in real time.

Skills : Angular, Django, MySQL, AWS

PROJECTS

Full-Stack Developer Web application enhancement

📅 Oct 2023 – Dec 2023 📍 Sfax, Tunisia

- Developed various frontend and backend tasks for an online training platform for Brightskies (client).

Full-Stack Developer E-commerce Web Application

📅 Sep 2023 - Dec 2023 📍 Sfax, Tunisia

- Built robust services for stock, user, payment, and shipping management, following secure and modular design with SQL. [Project Link](#).

Software Developer Orange and GIZ Tunisia Makeathon

📅 Dec 2022 📍 Novation City, Sousse

- Developed a real-time results visualization interface using Angular and Node-RED for data collection.

SKILLS

Programming Languages
C/C++, TypeScript, JavaScript, PHP, Python, Java

Web Development
Angular, React, Spring Boot, Django

Databases
MongoDB, MySQL, PostgreSQL, Firebase

Devops
Docker, Kubernetes, Github, Azure, AWS, Git

CERTIFICATIONS

- Workshop/Fundamentals of Accelerated Computing with CUDA Python (Nvidia, Feb 2024)
- Introduction à React.js (GoMyCode, July 2023)
- Microsoft Azure-900 (Oct 2023)
- Certified Fundamentals of Scrum (SCRUMstudy, Oct 2022)
- C++ (Sololearn, Mar 2022)

LANGUAGES

English	Professional
French	Professional
Arabic	Native Language

AWARDS

- 3rd Place - Hello world 3.0 problem-solving (ENIS, Apr 2023)
- 1st Place - Makeothone ODC (Orange, Dec 2022)
- 2nd Place - INDABAX (ENIS, Mar 2021)