Ibrahim BEN LAKHAL

Software Engineer - Recent Graduate in Computer Engineering

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EDUCATION

Master's Degree in Computer Engineering
National School of Engineering of Sfax

📅 Sep 2021 – Jun 2024　📍 Sfax, Tunisia

3.63 GPA

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

📅 Sep 2019 – Jun 2021　📍 Sfax, Tunisia

Ranked in the top 20% in the National Entrance Exam for Engineering Schools.

PROFESSIONAL EXPERIENCE

Software Engineer
Telnet

📅 Jul 2024 - Current　📍 Sfax, Tunisia

- Developed features handling timeout and error conditions, improving transaction reliability.
- Optimized **Ingenico's** payment solution, reducing lag and improving uptime by **15%** across **10 functionalities**.
- Refactored legacy code using **SOLID** principles, reducing technical debt by **20%** and maintenance time by **25%**.
- Migrated **20+ projects** from **SVN** to **Bitbucket**, automating scripts to streamline deployment.
- Collaborated with a **Scrum** team using **Jira**, achieving an average sprint completion rate of **95%**.

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

Software Engineer Intern
ReDX (Revolutionary Digital Transformation Technologies)

📅 Feb 2024 - Jun 2024　📍 Sfax, Tunisia

- Analyzed four core **algorithms** implemented within NextVision.
- Created a **Docker** environment to reduce setup time by **50%**, for seamless deployment.
- Developed a hybrid **CPU-GPU algorithm**, Improving execution time by **5.39x**.
- Tested and benchmarked to confirm performance enhancements.

Skills : C/C++, Linux, Docker, Git, CMake, cuGraph, OpenMP

DevOps Engineer Intern
ReDX (Revolutionary Digital Transformation Technologies)

📅 Jun 2023 - Aug 2023　📍 Sfax, Tunisia

- Designed and implemented dashboards for six distinct roles, each with customized KPIs and departmental metrics.
- Programmed five key REST APIs, enhancing the application features.
- Secured communication between backend and frontend using **JWT** authentication.
- Created features for course progress tracking and automated certification issuance.

Skills: Angular, Django, MySQL, AWS, JWT

PROJECTS

Lab Research Management Platform

📅 Sep 2023 – Dec 2023　📍 Sfax, Tunisia

- Built a web solution to manage laboratory tasks, reducing administrative workload by **30%**.
- Secured lab data with **Spring Security** and **JWT**, reducing unauthorized access incidents by **25%**.
- Implemented multi-criteria search functionalities, reducing search time by **40%**.

Skills: Angular ,Spring Boot ,JWT

SKILLS

Programming Languages
C/C++, Java, TypeScript, JavaScript, PHP, Python
Web Development
Angular, React, Spring Boot, Django, Go
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)

PUBLICATION

- Development of a Decentralized Application for Managing Food Supply Chain Based on Blockchain Published on ResearchGate, May. 2024

AWARDS

- 3rd Place - Hello world 3.0 (ENIS, Apr 2023)
- 1st Place - National Makeothone (Orange, Dec 2022)

EXTRACURRICULAR ACTIVITIES

Organizer - IEEE TSYP 9.0 (Dec 2022)
Coordinated and managed a conference attended by over +1000 students.

LANGUAGES

- English　　　　　　　　　　　Professional
- French　　　　　　　　　　　Professional
- Arabic　　　　　　　　　Native Language