

Mohamed SABR

Information Systems Engineering Student

Seeking Engineering Internship (PFA)

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PROFILE

Second-year engineering student at ENSA Khouribga, specializing in Information Systems Management and Governance, and student at 1337 – Programming School of 42 Network. Passionate about software development, data analytics, and technological innovation. Demonstrated skills in complex problem-solving, teamwork, effective communication, and project management. Seeking an engineering internship (PFA) to apply technical and managerial skills in a stimulating environment, bringing creativity, rigor, and initiative.

EDUCATION

Engineering Degree in Information Systems Management & Governance *Sept. 2024 – Present*
National School of Applied Sciences, Khouribga

Specialization: Information Systems Management and Governance

1337 Programming School *Sept. 2024 – Present*

Khouribga Campus | Part of 42 Network

Intensive training in programming, algorithms, and systems development

Integrated Preparatory Program *Sept. 2022 – June 2024*

National School of Applied Sciences, Khouribga

Training in mathematics, physics, computer science, and engineering sciences

High School Diploma in Experimental Sciences *Sept. 2021 – June 2022*

ANOUAL High School, Ouarzazate

Major: Physical Sciences (BIOF)

WORK HISTORY

Data Analytics Intern | Power BI & Business Intelligence *July 2025 – August 2025*

OCP Group – Beni Amir Washing Plant, Khouribga

- Developed 5+ Power BI dashboards for real-time monitoring of 15+ industrial performance KPIs
- Analyzed over 50,000 SQL/MySQL data records to optimize 3 key operational processes
- Automated 8 production reports, reducing generation time by 40% and saving 10 hours/week
- Collaborated effectively with 4 technical teams to identify and resolve 12+ data quality issues
- Enhanced operational decision-making through real-time data visualization
- Trained 6 end-users on Power BI dashboard usage, demonstrating excellent communication skills

ACADEMIC PROJECTS

Repair Tracking System *2024–2025*

Desktop application developed in Java with JavaFX for comprehensive repair management. Implemented CRUD operations to manage 100+ records, secure authentication system with 3 access levels, and modern graphical interface with Material Design. MySQL relational database management with 5 interconnected tables. Demonstrated rigor and autonomy in project management.

Event Registration System

2024-2025

Full-stack web application in PHP and MySQL managing 50+ events and 200+ users. Developed complete administration panel with 15+ features, server-side validation achieving 95% error reduction rate, and user management system with 3 different roles (admin, organizer, user). Teamwork with 2 developers, demonstrating excellent collaboration skills.

Cub3D – 42 Network Project

2024-2025

Designed 3D rendering engine in C using raycasting algorithm with 2000+ lines of code. Implemented loading and rendering of 10+ different textures, real-time collision detection with 99% accuracy, and smooth player control system. Performance optimization to maintain stable 60 FPS. Pair programming project, developing complex problem-solving skills and adaptability.

Minishell – 42 Network Project

2024-2025

Complete implementation of UNIX command interpreter in C with 3000+ lines of code, reproducing 20+ essential Bash functionalities. Advanced management of 10+ simultaneous processes, multiple pipes, input/output redirections, 15+ environment variables, and handling of 5 system signals (SIGINT, SIGQUIT). 95% success rate on unit tests. Pair project demonstrating perseverance and teamwork.

SKILLS

Programming Languages: Java, Python, PHP, C, C++, Bash/Shell

Web Development: HTML5, CSS3, JavaScript, Responsive Design

Databases: MySQL, SQLite, SQL, Relational Modeling

Data Analytics & BI: Power BI, NumPy, Pandas, Data Visualization

Modeling: UML, MERISE, Class Diagrams, Use Cases

Tools & Technologies: Git, GitHub, VS Code, Vim, Linux Shell

Operating Systems: Windows, Linux (Ubuntu, Debian), macOS

Methodologies: Agile, Problem Solving, Algorithm Optimization

ACHIEVEMENTS

- Reduced report generation time by 40%, saving 10 hours of work per week
- Developed 5+ Power BI dashboards processing 50,000+ data records
- Created 4 complex academic projects totaling 8,000+ lines of code in Java, PHP, and C
- Optimized 3 key operational processes at OCP Group through data analysis
- Successfully trained 6 users on Power BI, demonstrating excellent teaching skills
- Maintained stable 60 FPS in 3D engine with 2000+ lines of C code
- Achieved 95% success rate on Minishell project unit tests (3000+ lines of code)
- Efficiently managed 200+ users and 50+ events in full-stack web application
- Successfully collaborated on 3 major projects, showing leadership and team spirit
- Independently resolved 12+ complex data quality issues in industrial environment

Available immediately for PFA internship starting February 2026