

# Rachid Boutaikhar

## Software Engineer

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🔄 rboutaik

### 📁 Projects

#### Multithreading Programming

06/2024

1337 - 42 Network

- Created a solution for the classic Dining Philosophers problem
- Applied multithreading to simulate philosophers eating and thinking concurrently
- Developed algorithms to prevent deadlock and ensure efficient execution

#### Unix Shell Implementation

05/2024

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- Built a lightweight shell replicating Bash functionalities
- Designed efficient command parsing and execution, supporting features like AND (&&), OR (||), and piping
- Managed process creation and execution using fork and exec system calls for running external commands
- Implemented input/output redirection, enabling command chaining and file manipulation

### 🎓 Education

#### Software Engineering Program

11/2023

1337 School - 42 Network

Khouribga, Morocco

An intensive, peer-driven program focused on hands-on projects and real-world problem solving. Developed expertise in software development, algorithms, and system architecture.

#### Bachelor's Degree in Software Engineering

07/2022

Ibn Zohr University

Agadir, Morocco

Focused on software development and algorithms. Gained strong foundations in programming, database management, and software architecture.

### 🌐 Languages

Arabic – fluent • English – conversational • Tamazight – fluent • French – basic

### 🧠 Skills

Html, CSS, JavaScript, Next, React  
Front-end

C, C++, Java , SQL  
Others