



# BELARIF ACHRAF

## Software Engineer Student at 1337

I am software engineer with a passion for developing innovative solutions that expedite the efficiency. Well-versed in technology and writing code to create systems that are reliable and user-friendly.

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## PROJECTS

### Ft\_transcendence

[Source Code](#)

- Pong game: Real-time multiplayer, Matchmaking system, Game customization, Live stream.
- Login: Authentication using the OAuth system of 42-Intranet. And 2FA Security Layer.
- User Account: Real-time user status, Relations(Add/Block/Unfriend users), and Statistics.
- Chat: Real-time chat(DMs, Group Channels), Restriction system, Users permission, ...
- Technologies: NestJS - TypeScript - React - Docker - PostgreSQL.

### Webserv

[Source Code](#)

- This project is about writing a non-blocking HTTP server in C++98 following the RFC2616.
- A configuration file specifies: ports, server\_names, Limit client body size, routes, and CGI, ...
- Support chunked transfer encoding.
- Support PHP/Python CGI.

### Ft\_containers

[Source Code](#)

- Implementation of some container types in the C++98 standard template library (Vector/Stack/Map) following the Technical specifications.

### Minishell

[Source Code](#)

- This project is about creating a simple shell in C following BASH behavior.
- Parsing: Separation command line by '|', Quoting rules, Expand env variables, error parsing.
- Builtin: 'env', 'export', 'unset', 'pwd', 'cd', 'exit'.
- Redirection: Input/Output redirection '</'>', Appending Redirected '>>', Here Documents '<<'
- Execution: Execute Builtin commands. Commands with absolute/relative path. and commands based on a 'PATH' environment variable.

### Ft\_services

[Source Code](#)

- This project consists of clustering a Docker application and deploying it with Kubernetes.
- The application runs multiple services: MetalLB, Grafana, WordPress, Nginx, PhpMyAdmin, FTPS, InfluxDB, and MySQL.

## SKILLS

- |   |                                    |                   |
|---|------------------------------------|-------------------|
| • Network & System Administration : 7.28/10 | • Imperative Programming : 4.65/10 | • Web: 7.32/10    |
| • Object-oriented Programming : 6.08/10     | • Algorithms & AI : 6.41/10        | • Unix : 4.39/10  |
| • Graphics : 2.78/10                        | • Group & Interpersonal : 8.01/10  | • Rigor : 7.65/10 |

## LANGUAGES AND TECHNOLOGIES

- C/C++, JavaScript, ShellScript, TypeScript, SQL.
- Docker, Docker-compose, GIT, Kubernetes, NestJS, NodeJS, PostgreSQL, Prisma ...
- Arabic, English, French.

## EDUCATION

### Software Engineering

1337 Benguerir - Coding School | Sep 2019 - present

- Studied computer programming hands-on, in a peer-to-peer learning environment.
- Worked on various team-projects.

### Bachelor Degree

National School of Applied Sciences - Safi | Sep 2018 - Dec 2020

- Studied fundamentals of algebra, calculus, physics, and mechanics.