

Ismail Assil

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 iassil.dev

EDUCATION & CERTIFICATES

UM6P – 1337 Coding School

Khouribga - Morocco

Software Engineering

- Focused on algorithms, low-level programming, web development, and DevOps in a self-paced.

Google UX Design Certificate (in progress)


Online – Coursera

UX/UI Design

- Completed up to *Conduct UX Research and Test Early Concepts*.
- Learned fundamentals of user-centered design, wireframing, prototyping, and usability testing.


PROJECTS

ft_irc | IRC Chat Server | C++, Sockets, POSIX

 github.com/ismailassil/ft_irc


- Implemented a multi-client IRC server handling real-time messaging and user management.
- Managed socket connections, message parsing, and command processing following IRC protocol.

Object-Oriented C++ Modules | C++ Projects | C++

 github.com/ismailassil/cpp_modules


- Developed a series of C++ programs emphasizing OOP concepts: classes, inheritance, polymorphism, and templates.
- Implemented robust memory management and adhered to strict coding standards.
- Solved progressively complex exercises, reinforcing problem-solving and software design skills.

Minishell | Unix Bash Clone | C++

 github.com/ismailassil/minishell

- Implemented a Unix-like command-line shell supporting built-in commands, pipes, redirections, and signal handling.
- Managed process creation, execution, and termination while handling errors robustly.
- Applied system programming concepts to build a fully functional and interactive shell.

cub3D | Raycasting Engine | C

 github.com/ismailassil/cub3D

- Developed a 3D game engine using raycasting to render a first-person perspective environment.
- Implemented player movement, collision detection, and environment interaction.
- Applied graphics programming concepts and system-level C programming for real-time rendering.

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Java, C/C++, SQL (MySQL, SQLite)
- **Frameworks:** Next.js, React, Fastify, Spring Boot, Tailwind CSS, Framer Motion
- **DevOps & Monitoring:** Grafana, Prometheus, ELK Stack (Elasticsearch, Logstash, Kibana)
- **Developer Tools:** Git, Docker, Postman, Figma, VS Code, Vim, IntelliJ