

SUMMARY

Backend developer with a strong foundation in C++ and Python, built through rigorous hands-on projects at 42's intensive program. Skilled in developing real-time applications and efficient web servers, with experience in system programming, networking, and containerization. Focused on creating scalable and reliable solutions, I enjoy problem-solving and look forward to contributing my technical expertise to a collaborative, mission-driven team.

PROJECTS

WebServer

Description

Developed an HTTP server in C++ capable of handling real browser requests, with a focus on efficiency and scalability.

- Skills: Networking, Object-Oriented Programming, HTTP Protocol, Socket Programming, Design Patterns, C++ Programming

Real-Time Chat Application

Description:

Developed a backend for a real-time chat application using Django, Django REST Framework, and integrated APIs. Ensured seamless communication and user authentication, contributing to a robust, interactive user experience.

- Skills: Django, DRF, Real-Time WebSockets, API Development, Backend Development

Inception

Description:

Virtualized multiple Docker containers to simulate a web service infrastructure, incorporating web servers, databases, and networking layers. Demonstrated proficiency in Docker and advanced system administration.

- Skills: Containerization, Virtualization, Docker, Networking, DevOps, Scripting

Minishell

Description:

Created a simple Unix shell that supports process execution, piping, redirection, and signal handling.

- Skills: System Programming, Process Management, Inter-process Communication, Algorithms, C Programming

EDUCATION

1337 Coding School (42 Network)

Currently progressing through the Common Core with 93% completion

📅 2022 - Present

LANGUAGES

English

Advanced

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Arabic

Native

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French

Beginner

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SKILLS

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Version Control:

Git (branching, merging, pull requests, repository management)

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System Programming:

Unix systems, processes, threads, inter-process communication (pipes, signals), TCP/UDP sockets

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Networking:

IP addressing, subnets, routing, HTTP servers, IRC servers, web services

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Object-Oriented Programming:

Classes, inheritance, templates, memory management, polymorphism (C++, Python)

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DevOps:

Docker, Containerization, Virtualization, Infrastructure automation, Basic system administration (security and user management), Monitoring and Logging (ELK Stack, Grafana ...), Server Management

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Web Development:

Client-server architecture, HTTP protocol, MVC, backend development with Django, Websockets, DRF

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Collaboration & Teamwork:

Effective communication in team projects, task delegation, conflict resolution, peer code reviews

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Problem Solving & Rigor:

Debugging complex systems, testing and validation processes, handling edge cases in algorithms

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Soft Skills:

Adaptability, critical thinking, project management, self-learning, time management under pressure

PASSIONS

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AI and Machine Learning

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Kernel Development

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Cloud and DevOps Engineering