Joseph LANZA

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After two years of computer engineering studies at EPITA, I paused my education to gain valuable experience with the Paris Fire Brigade. I then resumed my programming education at School 42, an ideal environment for a self-directed learner like myself.

Education

42 Paris – Master in IT (RNCP level 7)   Expected 2025
High school diploma – Scientific Track with Honors   2014

Projects

Kernel From Scratch   github.com/lanzaj/kfs
- Created a kernel in Rust and assembly
- A global descriptor table and a command line interface
- Allows you to play Tetris !

Turing Complete   github.com/lanzaj/Nand2Computer
- Architected an 8-bit computer from scratch using NAND gates
- Created my own assembly language for programming it

Minishell   github.com/lanzaj/minishell
- Built a shell in C
- Redirections, pipes, environment variables, signals, builtins, fork

Webserv   github.com/lanzaj/webserv
- Coded a web server in C++
- Non-blocking, handle GET/POST/DELETE methods, download and upload of files, CGI, cookies
- Host my resume and my portfolio at josephlanza.fr

Cub3D   github.com/lanzaj/cub3d
- Designed a wolfenstein-like game coded in C using raycasting
- No game engine was used

Pong Office   github.com/rertzer/ft_transcendence
- A Pong game online hidden in a LibreOffice Calc page
- Multiplayer game online with a chat and a leaderboard

Experience

Medical secretary, Paris Fire Brigade   June 2020 – May 2023
- Vaccinated over 1000 individuals throughout the Covid crisis
- Developed a tool used for scheduling medical appointments for firefighters across 26 emergency response centers
- Edited, formatted, and processed injury reports for firefighters' interventions
- Communication, Organization, Multitasking

Firefighter, Paris Fire Brigade   June 2018 – May 2020
- Driving emergency vehicles quickly and safely, ensuring an effective response to emergencies
- Performing first aid procedures during interventions to stabilize victims and transport them to the hospital
- Extinguishing apartment and vehicle fires, demonstrating teamwork skills, stress management, and problem-solving in dynamic and urgent environments

Skills

Languages: C, C++, C#, Python, JavaScript, TypeScript, CSS, HTML, Rust, Ocaml, Assembly
Tools: Docker, Git, Kubernetes, React, Bash, Linux, AWS, Ansible, Argo CD, Blender, Unity