

THAM LE

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R&D Engineer specialized in systems programming and cross-platform development. Expertise in C/C++, Rust, and software security acquired through demanding technical projects and CTF competitions.

TECHNICAL SKILLS

Languages: C++, Rust, C, Python

Systems & Tools: Linux, Windows, Git, Docker, CMake

Technologies: WebSockets, TCP/IP, Cross-platform Development.

EXPERIENCE

R&D Engineer

Paris

KYBER

Oct 2025 – Present

- Developing high-performance remote control SDK built in Rust for streaming applications
- Implementing input streaming server for mouse, keyboard, and gamepad with latency management
- Building complete cross-platform support (Windows, Linux, macOS, Android, Web) with Docker containerization
- Managing complex Git workflows with multiple interconnected repositories and submodules

C++ Development Engineer

Palaiseau

Snowpack

Aug 2024 – Jul 2025

- Led C++ SDK modernization with successful WebAssembly proof of concept for browser execution
- Designed and implemented cross-platform data consumption measurement tools (C++, Android, iOS)
- Quality assurance via beta testing on Android, macOS, and ARM64; identified and fixed critical bugs
- Enhanced CLI with MFA authentication and advanced log management for memory safety

Research Intern

Gif-sur-Yvette

LSCE (CNRS & CEA)

Feb 2021 – Aug 2021

- Modeled ocean mercury distribution in IPCC climate models
- Automated Python data processing pipelines for environmental predictions

Research Intern

Hanoi, Vietnam

LOTUS Laboratory (IRD France)

May 2019 – Aug 2019

- Analyzed regional ocean models using MATLAB for numerical simulations

EDUCATION

42 Paris

Paris

Digital Technologies Architect (RNCP Level 7, Master's Equivalent)

2022 – Exp. Apr 2026

- Ranked Top 10 in 'piscine' (500+ participants) & Top 20 in Common Core (800+ students)
- Intensive software engineering training: C/C++, Python, Unix, Docker, object-oriented programming
- Tutor for new students (2023-2024)

Aix-Marseille University

Marseille

M.Sc in Marine Science

Sep 2019 – Jun 2021

- Oceanographic modeling and data analysis: Python, R, Fortran

TECHNICAL PROJECTS

ftirc – RFC 2812 Compliant IRC Server | C++, Sockets, TCP/IP

- Developed a complete IRC server in C++ strictly adhering to RFC 2812
- Implemented non-blocking I/O model using `poll()` to handle multiple simultaneous connections

Inception – Docker Infrastructure | Docker, Nginx, MariaDB, WordPress

- Complete containerized infrastructure with Docker Compose, custom volume and network management

Ray Tracer & Fractals | C, pthreads, MiniLibX

- Multithreaded 3D ray tracer with Phong shading; high-performance fractal explorer

CERTIFICATIONS & ACTIVITIES

Cybersecurity Foundations Certification (Google Career Certificates)

Jan 2025

Active member of APT42 student infosec club

CTF Competitions: HeroCTF, IrisCTF, HackTheBox (Web exploitation, Reverse engineering)

Google init.g() (Cybersecurity, AI) and Google Hardware Hackathon

Oct 2024