UTC Apprentice (36 months) - Full-Stack Development, Cybersecurity or AI

William PERRET

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EDUCATION

UTC – University of Technology of Compiègne

Program: Engineering degree 2026–2029

Target courses: machine learning for engineers, web application architecture, algorithms and data structures, software engineering

Admission: joining the apprenticeship engineering cycle in 2026

Bachelor's University Degree in Computer Science

Institution: IUT of Arles – Aix-Marseille University 2024–2026

Technologies: C++, Java, web, SQL, Qt, systems, networks, virtualization

Skills: analyze requirements, develop and test applications, design databases, work in teams and manage projects

General Baccalaureate (Honors)

Institution: F. Mistral High School 2024

Specialties: mathematics, physics-chemistry, computer science

EXPERIENCE AND SKILLS

Full-stack development 2025–26

GestionFrais Pro | Electron, React, NestJS, PostgreSQL

- Managed the backlog and coordinated a team of 5 on a desktop expense management application, with product follow-up and priority planning
- Developed the React/Electron interface and contributed to the NestJS backend, JWT authentication, technical documentation and API structure
- Designed a multi-role application with validation workflows, receipt management and PostgreSQL data persistence

Web application development 2025

Medical Procedure | Laravel, Blade, Tailwind, SQLite

- Developed a business web application focused on medical procedures and appointments, with separate spaces for admin, user and patient roles
- Implemented authentication, appointment management and PHPUnit tests on the main user flows to secure the application's behavior
- Structured business data around procedures, technicians, equipment and consumables, with a dedicated administration interface

Network and systems development 2025

Instant Messaging in C++ | POSIX sockets, multithreading

- Developed a multithreaded client/server application in C++17 handling multiple simultaneous connections through POSIX sockets
- Implemented a thread-safe architecture with mutexes and condition variables, message queue, history and real-time message delivery
- Designed a real-time communication system with broadcast, connected-user tracking and server event logging

LANGUAGES

French: native language

English: B2

INTERESTS

Programming: regular learning, personal projects and continuous improvement of practices

Drums: 7 years of practice, band playing and concerts

Piano: 3 years of practice and recitals