Mathias Lefrançois

Computer Science Student

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Profile

Second-year Computer Science student at IUT de Bordeaux, on an international track taught mostly in English. Looking for a 10-week software development internship from 18 January to 26 March 2027.

Education

IUT de Bordeaux, University of Bordeaux — Gradignan, France

Bachelor Universitaire de Technologie (BUT) in Computer Science, Year 2 — *Sep 2026 – Present*

- Year 2 of a 3-year French bachelor-level degree (180 ECTS in total).
- International track, taught mostly in English. Pathway A: Application Development.
- Coursework: Java, Web Development, Databases, Software Analysis and Design, Testing, Systems Programming (C).

University of Bordeaux — Talence, France

Bachelor's Degree (Licence) in Computer Science, Year 1 — *Sep 2025 – Jun 2026*

- Completed Year 1 (60 ECTS), ranked 5th in the Year 1 cohort, then transferred into Year 2 of the BUT programme.
- International track, taught mostly in English. Coursework: Python, C, Databases, Web Development (Node.js), Maths.

Lycée de la Mer — Gujan-Mestras, France

French Baccalaureate (Baccalauréat Général), with High Honours (Mention Bien) — *July 2025*

- French secondary-school leaving qualification; Mathematics and Computer Science (NSI); European Section in English.

Projects

Personal Portfolio Website — Sep 2026 – Present

Personal project | Next.js, TypeScript, Tailwind CSS, GitHub Pages, GitHub Actions — *mathiaslefrancois.fr*

- Built a bilingual (French/English) website whose content adapts to the visitor: recruiter, developer or curious reader.
- Set up a custom domain, automated deployment with GitHub Actions, enforced HTTPS and cookie-free analytics.

VCub Back-Office, Bike-Sharing Database Application — May 2026

Databases coursework, Year 1 | Python, psycopg2, PostgreSQL, SQL — *vcub.mathiaslefrancois.fr*

- Translated a conceptual model into a 6-table PostgreSQL schema with constraints, a view and aggregate queries.
- Built a Python console back-office for stations and subscriptions, with parameterised queries against SQL injection.

Draft-sql, Visual Database Schema Designer — Apr 2026 – May 2026

Personal project | Next.js, TypeScript, Tailwind CSS, React Flow — *draft-sql.mathiaslefrancois.fr*

- Built a web app to design relational schemas on an interactive canvas: typed columns, key constraints, foreign keys.
- Generated PostgreSQL DDL (composite keys, ON DELETE actions) with quoted identifiers to prevent SQL injection.
- Added preview, copy and download, inline validation of names and automatic saving to localStorage.

Image Gallery Web Application, Web Programming Course — Feb 2026 – May 2026

Solo coursework project | Node.js, PostgreSQL, JavaScript, HTML/CSS

- Built a full-stack image gallery on a Node.js server using the native http module and PostgreSQL.
- Added sign-up and login with salted password hashing, cookie sessions, image comments and per-user likes.

Experience

Private Tutor — 2022 – 2026

Mathematics and English, working directly with families — *Gujan-Mestras, France*

- Tutored 5 primary and middle school pupils in mathematics and English, up to 5 hours per week.
- Supported 2 pupils over 3 years, adapting explanations, tracking progress and helping them plan their work.

Volunteer, Food Collections for an Animal Shelter — 2024 – 2026

Several in-store collection drives — *Gujan-Mestras, France*

- Approached shoppers to ask for donations, then loaded and unloaded the collected goods.

Technical Skills

Programming	Python, Java, C, JavaScript, TypeScript
Web	HTML/CSS, React, Next.js, Node.js, Tailwind CSS
Databases	SQL, PostgreSQL, relational modelling, UML
Security	Salted password hashing, SQL injection prevention, cryptography
Tools	Git, VS Code, LaTeX

Languages and Interests

Languages	French (native); English (B2, Cambridge English Certificate); Spanish (elementary, A2)
Interests	Calisthenics, rock climbing, snowboarding, badminton; fantasy and science-fiction novels, manga