

Basile Wohlers

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Born: 06.01.2003
Nationalities: Swiss, French



Profile

EPFL Computer Science student (GPA 5.31/6) with strong foundations in programming, algorithms, and analysis. Passionate about Artificial Intelligence, with keen interests in cybersecurity, and sailing. Eager to contribute to impactful AI and cybersecurity projects.

Education

- 2025–2026 **Exchange Student in Computer Science**, *University of Edinburgh*, Edinburgh, UK
Courses: Computer Security; Advanced Database Systems; Introduction to Databases; Theoretical Computer Science; Financial Economics; Programming for Biomedical Informatics.
- 2023–2026 **Bachelor in Computer Science**, *EPFL*, Lausanne, Switzerland, GPA: 5.31/6
Computer Science & Systems: Algorithms; Computer Architecture; Computer Systems; Software Construction; Digital Systems; Human-Computer Interaction (HCI); OOP.
Mathematics: Analysis (I-IV); Linear Algebra; Probability & Statistics.
Science & Applied: Physics (Mechanics); Life Sciences (Introduction); Technologies for Democratic Society.
- 2022–2023 **Preparatory Year (CMS)**, *EPFL*, Lausanne, Switzerland
Intensive foundational year in mathematics, physics, and computer science.
- 2018–2022 **Bilingual Swiss Matura (French-German)**, *Collège de Candolle*, Geneva, Switzerland, Honors
Economics & Law track

Professional Experience

- 2026 **Summer Intern**, *BCGE*, Geneva
I will be an intern in their Cybersecurity department.
- 2024–2025 **Teaching Assistant**, *EPFL*, Lausanne
- **Mechanics (Physics) - 1st Semester:** Supported first-year students in a physics course by answering questions and correcting solutions during exercise sessions (weekly tutorials of 20+ students).
 - **Object-Oriented Programming - 2nd Semester:** Coached and evaluated around fifty student teams (CFF project), helping clarify requirements, debug architectures, and translate technical obstacles into actionable solutions.
- 2022–2024 **Sailing Instructor**, *Yacht Club de Genève*, Geneva
Leading sailing lessons for children and adults; preparing boats and ensuring safety on the water.
- Mar–Jun 2021 **Intern – Architecture Firm**, *BCMA*, Geneva
Assisted with project preparation and office tasks.

Volunteering & Associations

- 2021–2022 **President of Sailing Further (Association)**. Co-founded and led a 48-hour global fundraising challenge for marine conservation (Pelagos Sanctuary): reached out to over 50 organizations and secured sponsorships, coordinated participants across multiple locations, managed logistics, and raised over CHF5,265 with 500+ nautical miles sailed collectively.
- 2025–Present **Web Developer Swiss Solar Boat (Association)**. Develop and maintain the association's website using Astro framework.

Languages

Languages French (native), English (C1), German (B2)

Competences

Programming Python (Including NumPy, SciPy, pandas); Java; C; Scala; SQL; PHP; Verilog
Languages
Tools Git, GitHub, GitHub Actions (CI/CD), Linux/Unix, Astro (Web Framework), Laravel, LaTeX, Excel, VBA

Projects

- Database Java implementation of database internals (Advanced Database Systems, Edinburgh). Implemented pipeline architecture with Engine query optimization strategies: aggregate pushdown, cross-product avoidance.
- WebApp Poker Full-stack Scala web application for Texas Hold'em Poker. Team project (4 people) based on course template.
- Carcassonne Java implementation of the Carcassonne board game. Team project (2 people) developed from scratch.
- Lung Cancer Bioinformatics project (Python) analyzing gene co-expression networks from TCGA data. Applied Louvain clustering to identify Study gene modules and validated biological relevance using KEGG pathway enrichment analysis, successfully identifying distinct immune Reproduction signatures.
- DKVS Distributed key-value store in C inspired by Amazon Dynamo (CS202 course). Implemented consistent hashing ring for data distribution, configurable quorum (N, R, W) for consistency, data replication across servers, and a dump tool to inspect ring state and stored key-value pairs.

Interests & Achievements

Sailing 2019 Swiss Championship (6th), 2019 World Championship (Silver Fleet winner), 2021 World Championship (16th), 2022 Newport Race Week (3rd)
Music Piano, 8 years of practice