Sacha Darier--Legrand

Computer science and electronics engineering student · Seeking an internship
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Profile

Passionate about technological innovation and user experience, I build tools and native applications, from logic circuits to interfaces.

Skills

Programming & Tools

Python, Java (Swing, MVC), TypeScript, Swift (SwiftUI), C, HTML5/CSS3, VHDL-2008, Git, VS Code Extension API, Generative AI (Claude, Codex, Antigravity), DaVinci Resolve, bash

Strengths

Mathematical rigor, software architecture and OOP, project management and leadership, interpersonal skills, UI/UX design

Projects

Questassure · VS Code extension for VHDL development ESIEE Excellence Award (2nd year)

- **Over 1,100 downloads** (VS Code Marketplace, Open VSX) and **95% conversion** from page visit to install.
- Real-time GHDL diagnostics, Yosys RTL synthesis, waveforms, a visual state-machine editor that generates VHDL, and an MCP server letting AI agents drive simulations and synthesis.

Juicy · iOS app for managing drink inventory

- Barcode scanning at **60 FPS**, widget, and peer-to-peer sync between devices with no server.

Adventure game · Pokémon-style, IPO project 2025

- Game with a graphical interface, delivered with a full design report.

Experience

Arlettie Paris Jun 2025 – Jul 2026

Versatile sales associate, luxury fashion

- About **2 private sales per week** (Prada, Balenciaga, Tommy Hilfiger, SMCP, Zadig & Voltaire, de Fursac): in-store sales, cashier, customer welcome, restocking and inventory, event setup and pack-down.

ESIEE Paris, private Feb 2026 – Jun 2026

Math and French tutor

- **100%** of the students I coached for math resit exams passed them.
- Prepared a high-school student for the early oral French baccalauréat exam.

Mini-company "L'Heure d'Élire" 2021 – 2022

R&D Lead

- Led **4 people** within a mini-company of **20 members**; designed a civic board game for ages 9-13 in partnership with Institut Curie.
- **50 units sold, €2,000 in revenue**; winner of the Île-de-France regional jury prize for mini-companies and of the departmental collective civic spirit prize of the Ordre national du Mérite.

TeamTO, SAP, Qualtrics, La Boîte à Lettres bookstore 2020 – 2023

Observation internships

- Stop-motion short film, ERP software publishing, promotional video and client event logistics, bookselling.

Education

ESIEE Paris Engineering degree

Computer science 2024 – 2029

- Ranked **3rd** in first year and **13th** in second year of the class.

Università di Bologna Exchange semester

Electrical and communications engineering Sep 2026 – Dec 2026

Institution Sainte-Geneviève French baccalauréat • Highest honors

Maths, physics-chemistry 2021 – 2024

Languages

French
Bilingual

English
Bilingual

Spanish
B1 (DELE)

Ancient Greek
Basic

Certifications

American High School Diploma

Intro to Machine Learning