

# Ibrahima BALDE CISSE

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French, EU Citizen

Driving License

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## SUMMARY

Aspiring Software Engineer currently pursuing a 5-year Computer Science degree at CY Tech. Proficient in **C, Python, Shell scripting, and web development (HTML/CSS, PHP, JavaScript)**. Experienced in building **full-stack** applications, manipulating data using **Pandas & SQL**, and integrating **REST APIs**.

Eager to join a collaborative engineering team through a **3-year apprenticeship starting September 2025**, with long-term goals in **Agile Project Management, AI or Cloud**.

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## EDUCATION

**CY Tech Engineering School (ex-EISTI) - CY Cergy Paris Université**, Cergy-Pontoise, FRANCE 2023-2028

- **Majors:** Master's degree in computer science and mathematical engineering
- **Relevant Coursework:** Project Management, Software Engineering, Object-Oriented Programming Databases, Data Structures, Operating Systems
- **Technologies:** C, C++, Java, Python, Shell, Web Development
- **Planned Specialization:** Artificial Intelligence, Data Science or Cloud Computing

**Jeanne d'Albret High School**, Saint-Germain-en-Laye, FRANCE 2023

Scientific French Baccalauréat with Mathematics specialization (A-level equivalent)– Honors

- **Relevant Coursework:** Python, Web Development, Problem Solving, Object-Oriented Programming

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## TECHNICAL SKILLS

- **Languages:** C, Python, Shell, PHP, HTML/CSS, JavaScript
- **Tools & Platforms:** Git, GitHub, Linux/Unix, REST APIs
- **Data Handling:** Pandas, JSON, CSV, SQL
- **Concepts:** Full-Stack Web Development, Data Structures, Software Testing (Manual), Modular Programming

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## ACADEMIC PROJECTS

**Online Travel Agency**, Full-Stack Web Development 2025

- Designed and developed a full-stack travel booking platform using **HTML/CSS (frontend) and PHP (backend)**
- Built core features: user authentication, booking system, and payment capability
- Integrated external **REST APIs** (air booking, geolocation...) and used **JSON** for dynamic data management

**Urban Economics Data Analysis Platform**, Python 2025

- Analyzed World Bank datasets related to urban development using **Pandas** and **Matplotlib**
- Automated data extraction via **REST API integration**, performed cleaning and transformation of large datasets
- Generated actionable insights and visualizations for urban economics trends

**C-Wire – Power Plant Management Tool**, C & Shell 2024

- Developed a terminal-based app to manage power plants stored in **CSV files**
- Implemented **self-balancing binary trees** for efficient search and data management
- Used **Shell scripting** for file manipulation and automation

**CY-Fish – Multiplayer Game**, C 2024

- Developed a 2–6 player **turn-based game** using C
- Used **modular programming principles** and **separate compilation** for clean code structure
- Focused on **memory safety** and gameplay logic

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## CERTIFICATIONS

- **HackerRank:** Software Engineer Intern Challenge, Python (Basic), SQL (Basic)

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## SOFT SKILLS

Analytical Thinking, Creative Problem Solving, Teamwork, Communication, Curiosity, Proactivity

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## LANGUAGES

French (Native), English (B2), Chinese (Basics), German (Basics)

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## INTERESTS

Piano (Autodidact), Reading, Sport