

# CHRISTIAN AZIAKA

Paris, France

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Portfolio: [www.aziaka.com](http://www.aziaka.com)

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## PROFILE

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Software Engineer passionate about the Internet of Things (IoT), robotics, and embedded systems. Practical experience in Full Stack development, API integration, high-performance payment solutions, and building modern web/mobile applications for clients. Curious and rigorous, I combine skills in C++, Python, Cloud technologies (AWS, Docker), and React/Next.js to design innovative solutions.

## EDUCATION

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**EPITA (School of Engineering and Computer Science)** Paris, France  
*Master's Degree in Software Engineering* 2020 – Present

- Specializations: Embedded Systems, Artificial Intelligence.
- Upcoming international exchange at MCAST (2025) focusing on Generative AI and Data Science.

**Lycée Jaurès** Châtenay-Malabry, France  
*High School Diploma in Science (with Honors)* 2018 – 2020

**The Senegalese American Bilingual School** Dakar, Senegal  
*Middle & High School* 2012 – 2018

## PROFESSIONAL EXPERIENCE

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**LUSIS** Paris, France  
*Software Engineer (Apprenticeship/Internship)* 2024 – Present

- Development of high-performance payment solutions for financial institutions.
- Design and integration of banking REST APIs.
- Technologies: C++, Network programming, XML, PostgreSQL, REST API.

**Freelance Software Engineer** Paris, France  
*Independent Developer* 2025 – Present

- **Couliflex:** Designed and developed a cross-platform mobile application (iOS & Android) using React Native ([couliflex.com](http://couliflex.com)).
- **Alesia RSVP:** Built a responsive and high-performance front-end architecture using Next.js ([alesiarsvp.com](http://alesiarsvp.com)).
- Technologies: React Native, Next.js, iOS, TypeScript.

**Asset Sensing IoT** Paris, France  
*Co-Founder & Lead Developer (Smart Home Solution)* 2020 – Present

- Creation and development of a complete IoT solution for home automation and management.
- Utilization of NodeMCU (ESP32) processors and implementation of MQTT protocols.
- Automation of data flows via Node-RED.

- Technologies: C/C++, Python, Node-RED, MQTT, Arduino, Raspberry Pi, YAML.

## **SABS Robotics Club**

Dakar, Senegal

*Robotics Lead*

2016 – 2018

- Design of educational robots and technical mentoring.
- 1st place at the Pan-African Robotics Competition (2017).
- 2nd place at the Pan-African Robotics Competition (2016).
- Technologies: Arduino, Raspberry Pi, C/C++, ROS, Scratch.

## **KEY PROJECTS**

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### **Compiler Development (Tiger Project) 2024**

- Complete implementation of a C++ compiler (Lexing, Parsing, AST).

### **Shell Implementation (42sh) 2024**

- Development of a simplified POSIX shell in C, including process and pipe management.

### **OCR & Machine Learning (Sudoku Solver) 2022**

- Creation of optical character recognition (OCR) software and Sudoku solver in C.
- Image preprocessing and implementation of simple neural networks.

## **TECHNICAL SKILLS**

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- **Programming Languages:** C, C++, Python, Java, C#, JavaScript, TypeScript, SQL, React Native, .
- **Web & Mobile:** Next.js, React Native, Node.js, React, iOS.
- **IoT & Embedded Systems:** Arduino, Raspberry Pi, ESP32, MQTT, Node-RED, ROS.
- **Cloud & DevOps:** AWS, Docker, Kubernetes, Git, CI/CD, Linux/Unix.
- **Data & AI:** TensorFlow, Keras, Pandas, Machine Learning, NLP.

## **LANGUAGES & INTERESTS**

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- **Languages:** French (Fluent), English (B2 Upper Intermediate), Italian (Native), Wolof (Fluent), Spanish (Basic).
- **Interests:** Video Editing, Football, Music, Reading, IoT Technology Watch.