

# Charlot Joël DEDJINOU

Full-Stack Software Developer | Passionate about AIoT & Social Impact

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## PROFILE

**Dynamic Software Engineer**, driven by the belief that digital innovation can tangibly improve people's lives. Versatile in **full-stack development**, **cybersecurity**, **AI**, and **IoT**, I have turned ideas into high-impact solutions through award-winning hackathons, professional internships, and personal projects. Winner of the **2025 Smart Cities Hackathon**, I now aspire to specialize in **intelligent systems** to design technologies that address the world's most pressing social challenges.

## TECHNICAL SKILLS

### Frontend Web Development

React (+Redux), Vue (+Vuex), Bootstrap, Tailwind CSS, WebSocket, Figma

### Mobile Development

Flutter, React Native

### Backend & API Development

Express.js, Node.js, Laravel, FastApi

### Database Management

MySQL, Oracle, SQLite, MongoDB, SQL

### Deployment & DevOps

Linux, VPS, Nginx, PM2, HTTPS, Vercel

### Project Management & Collaboration

Git, GitHub, GitLab, Agile SCRUM, Technical Documentation

### Embedded Systems & IoT Development

Arduino, ESP32, ESP32-CAM, Sensors, Wiring

### Programming Languages

Python, JavaScript, C, C++, PHP, Java

### Artificial Intelligence

Machine learning, Computer vision

## EDUCATION

### Bachelor's Degree in Software Engineering

Institute for Training and Research in Computer Science (IFRI) 🌐

Oct 2021 – Mar 2025 | Abomey-Calavi, BENIN

**High Honors** – GPA: 16.14/20

### Mastercard Foundation Scholar

University of Abomey-Calavi 🌐

Oct 2021 – Oct 2024 | Abomey-Calavi, BENIN

• Cohort 5 Representative (2023–2024)

### Scientific Baccalaureate (Series C – Mathematics & Physical Sciences)

CEG L'Entente

2014 – 2021 | Cotonou, BENIN

• **High Honors** – GPA: 16.81/20

## PROFESSIONAL EXPERIENCE

### Full-Stack Developer

ECOTIC 🌐

Jan 2023 – Jan 2025 | Abomey-Calavi, BENIN

- Designed and modeled the system using **UML diagrams**
- Developed full-stack web applications with **React.js, Redux, Laravel, Tailwind CSS, and Bootstrap**
- Deployed and maintained infrastructure on a **VPS**: domain configuration, **Nginx** setup, **PM2** process management, **HTTPS**, and ongoing maintenance

### Frontend Web Developer

ICT Promotion Service (SPTIC), University of Abomey-Calavi 🌐

Apr 2024 – Sep 2024 | Abomey-Calavi, BENIN

- Developed the user interface of the University of Abomey-Calavi's academic portal using **React.js**
- Integrated **APIs** to dynamically fetch and display data

### Frontend Web Developer

AGCS LIDAL

Aug 2023 – Oct 2023 | Abomey-Calavi, BENIN

- Merged three **WordPress** sites into a single, optimized unified platform
- Developed a performant and maintainable frontend interface using **React.js**

## CERTIFICATIONS & TRAINING

### AI Engineer & Data Scientist Track

OPENCLASSROOMS

2022 – present | Online, BENIN

17 out of 27 certifications completed

### TOEFL Preparation – English Language

Centre Béninois des Langues Étrangères (CEBELAE)

Oct 2024 – Feb 2025 | Abomey-Calavi, BENIN

### Project Management MOOC – Core Track 🌐


MOOC Gestion de Projet

Mar 2024 – May 2024 | Online, BENIN


- Agile Project Management with Scrum
- Tools & Problem-Solving Methodologies

- Class Representative in Final and Penultimate Years


### AWARDS

**1st Prize – Smart Cities Hackathon**   
*Ratheil Foundation for Responsible and Efficient Artificial Intelligence in Africa (FRIARE)*

Apr 2025  
Developed an intelligent **AIoT-based smart parking** management system featuring reservation, secure access, vehicle detection via computer vision, and real-time monitoring.


**3rd Prize – Multimodal and Multilingual AI Challenge Hackathon – BENIN**   
*Agency for Information Systems and Digital Technology (ASIN), Benin*


May 2024  
Created a smart web application capable of **automatically subtitling and dubbing any video** in the user's preferred language. The solution integrated a React frontend, Python APIs for audio/video processing, and Node.js for subtitle generation and synchronization.

**1st Prize – MIFY Artificial Intelligence Contest (MAIC)**   
*Machine Intelligence For You (MIFY)*  
Dec 2022  
Collaboratively developed an **AI able to strategically play Morabaraba**, a traditional African board game. The Python-coded solution implemented decision-making AI techniques to compete against and defeat real-time AI opponents.

**Communicative English**  
*TBC AFRICA - USA*  
Jul 2022 – Jul 2022 | Cotonou, BENIN  
Intermediate Level: B1

### COMMUNITY INVOLVEMENT

**Conscience Féminine NGO**   
*Full-Stack Developer*  
Mar 2025 – present | Abomey-Calavi, BENIN  
Designed and developed the NGO's official website featuring organization presentation, news updates, contact forms, and online donation capabilities.

**Mastercard Foundation Baobab Platform**   
*Ambassador*  
Oct 2023 – present | Abomey-Calavi, BENIN  
Promote the platform by creating content, engaging the community, collecting user feedback, and leading educational initiatives to enhance user experience.

**The Duke of Edinburgh's International Award Foundation**   
*Software Development Mentor*  
Nov 2024 – Jan 2025 | Abomey-Calavi, BENIN  
Provided training and mentorship to women in web and mobile development to empower them.  
Donated a laptop to a participant who is now an intern at CELTIS.

### LANGUAGES

**French** ● ● ● ● ●  
Native

**English** ● ● ● ● ●  
TOEFL (Target: 100/120) – Currently preparing

### SOFT SKILLS

- Team spirit & collaboration
- Analytical thinking & problem-solving
- Adaptability
- Creativity & innovative mindset

### REFERENCES

**Engineer TOBOSSI Olivier**, *Chief Information Officer (CIO)*, City Hall of Cotonou (MCOT)  
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**Public Manager SAGBOSSINON G. Jean Eric**, *Executive Secretary*, Mastercard Foundation at the UAC  
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