

BOUDAOUD HAMZA ZAKARIA

Mid-Level Full Stack Developer | React & Next.js Specialist | DevOps & IoT

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 [GitHub: github.com/boudaoud-zakaria](https://github.com/boudaoud-zakaria)



PROFESSIONAL SUMMARY

Mid-level full stack developer with **5+ years programming experience** and proven expertise since 2021 in building scalable, production-grade web, mobile, and IoT solutions. Specialized in modern frontend frameworks (Next.js, React.js), backend architectures, and robust DevOps workflows. Strong hands-on experience with design patterns (MVC, Singleton, Factory ...), software architecture, and deployment automation. Proven track record delivering 10+ projects for startups, e-commerce, healthcare, and education sectors.

PROFESSIONAL EXPERIENCE

Full Stack Developer – Freelance & Startup | 2021 – Present

Leading frontend and full-stack development across web, mobile, and IoT projects

Key Achievements:

- Architected and delivered **10+ production web, mobile, and IoT applications**
- Built responsive, high-performance interfaces using Next.js, React.js, and React Native with Tailwind CSS
- Implemented scalable backends using Node.js, Express.js with MVC architecture patterns
- Applied software design patterns for maintainable code
- Managed complete DevOps workflows: Docker containerization, automated deployment, CI/CD pipelines
- Integrated payment systems, real-time data management, and IoT connectivity
- Optimized frontend performance, reducing load times by 40-60%
- Deployed on Vercel, Firebase, AWS, Linux VPS with monitoring and maintenance

Major Projects:

1. Salekni – E-commerce Web & Mobile (Next.js, React Native)

Full-stack platform with product catalog, cart, real-time sync | Design patterns: MVC

2. Eclipsa – Healthcare Monitoring Platform (Next.js)

Doctor dashboard for monitoring pregnant women, real-time data, patient tracking

3. Raskilni – Waste Trading Mobile App (React Native)

Marketplace with geo-location, listings, payments | Production deployment

4. E-Commerce Platforms – TPI Vision & Dari Meuble (Next.js, Express)

Full-stack with admin dashboards, payments, SEO optimization | tpi-vision.shop | darimeuble.shop

5. CNSL Tikejda – Luxury Hotel & Gym Booking (Next.js, e-payment)

Reservation system, availability calendar, admin dashboard, DevOps deployment | cnsl-tikjda.dz

6. Marifa – AI-Powered Learning Platform (Next.js)

Educational web app for children with AI integration, progress tracking

7. Charity & Donor Platform – Networking Web App (Next.js)

Connect charities with donors, donation tracking, user authentication

8. Municipal Complaints Portal – Citizen Reporting (Next.js)

Public platform for submitting complaints, role-based dashboards, real-time status

9. E-Learning Platform – Tech & AI Courses (Next.js, Express)

Complete LMS with video integration, quizzes, progress tracking, certificates | zaki-boudaoud.online

10. IoT Smart Attendance System – RFID University System (Next.js, Node.js, Docker)

Bachelor's Thesis Project 2023-2024 | RFID-based attendance for schools/universities | Real-time web dashboard, teacher timetabling, reporting | Deployed with Docker, MySQL backend, UML architecture | Grade: 19.75/20

Trainer & Instructor – Newton Academy & Online | 2022 – 2025

Designed Full Stack Web Development curriculum • Trained 50+ students in React, Next.js, Node.js, design patterns • Mentored junior developers on best practices and code quality

Freelance Developer (Early Work) | 2019 – 2021

Built foundational projects, learned full stack development, established client relationships

TECHNICAL SKILLS & EXPERTISE

Frontend (Expert)

Next.js (SSR, SSG, API Routes), React.js, React Native, TypeScript, JavaScript ES6+, HTML5, CSS3, Tailwind CSS, Redux, Material-UI, responsive design

Software Architecture

MVC Pattern, design patterns, UML modeling, scalable architectures, microservices basics, clean code principles

Mobile & Desktop

React Native, Expo, Electron.js, Android & iOS development and deployment

Backend & Full-Stack

Node.js, Express.js, NestJS, REST APIs, GraphQL basics, MongoDB, PostgreSQL, MySQL, Prisma

DevOps & Deployment

Docker, Docker Compose, CI/CD pipelines, Linux server management, Vercel, Firebase, AWS (EC2, S3), VPS deployment, automated testing, monitoring

IoT & Advanced

IoT system integration, RFID technology, real-time dashboards, image classification, face detection, AI model integration, WebSocket

EDUCATION

Master 2 Degree – Computer Science (Computer Systems Engineering)

University of Bouira | Expected Graduation: 2025

Bachelor's Degree – Computer Science, Specialization: Systems Information (SI)

University of Bouira | Graduated 2024

Thesis: "Optimizing IoT Solutions for Enhanced Management of Students in Private and Public Schools"

RFID-based attendance system with web dashboard | Grade: 19.75/20

CERTIFICATIONS & RECOGNITION

✓ **Africa Startup Conference** – Artificial Intelligence Certification (2023)

✓ **TEKNE Club** – Web Development Instructor Certification (2025)

✓ **Outstanding Academic Achievement** – IoT with AI Graduation Project (Grade: 19.75/20)

✓ **ICT Towers** – Cybersecurity Operations Certification

LANGUAGES

Arabic	Native Speaker
English	Fluent (Written & Spoken)
French	Intermediate

KEY ACHIEVEMENTS & STATISTICS

10+ Production apps deployed **5+** Years programming **4+** Years full stack

50+ Students trained **100%** On-time delivery **4.2/5** Client satisfaction

DEVELOPER LEVEL POSITIONING

Mid-Level Developer – Recommended positioning based on:

- ✓ 5+ years programming experience with multiple technologies
- ✓ 4+ years full stack development and project ownership
- ✓ 10+ production applications successfully deployed
- ✓ Strong software architecture and design pattern knowledge
- ✓ Proven DevOps and deployment expertise
- ✓ Mentor and training experience
- ✓ Not junior (<2 years) • Not senior (8+ years enterprise/leadership)

AVAILABLE FOR

⌚ **Mid-Level Developer** positions

⌚ **Full Stack Developer** roles

⌚ **Next.js / React Specialist**

⌚ **DevOps & Deployment Engineer**

⌚ **Mobile Developer** (React Native)

- ⌚ IoT Systems Developer
- ⌚ Technical Lead / Mentor
- ⌚ Freelance & Contract work

PORTFOLIO & REFERENCES

Live Projects:

- CNSL Tikejda (Booking): cnsl-tikjda.dz
- TPI Vision (E-commerce): tpi-vision.shop
- Dari Meuble (E-commerce): darimeuble.shop
- E-Learning Platform: zaki-boudaoud.online

GitHub: github.com/boudaoud-zakaria

Available for technical interviews, project demonstrations, and detailed references upon request