

ABDELALI ELKOURAMI

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PROFESSIONAL SUMMARY

Full-Stack Developer & AI Engineer with 5+ years of experience building scalable systems across AI, blockchain, and enterprise applications. Specialized in Python, JavaScript, and modern cloud architectures with proven track record of delivering \$5K-\$90K projects for international clients across 3 continents.

Unique Value Proposition: The intersection developer where AI meets blockchain, theory meets production, and global teams deliver quantifiable results."

TECHNICAL SKILLS

- Programming Languages:** Python, JavaScript, TypeScript, Rust, Go, C++, Java
- Web Frameworks:** Django, FastAPI, React, Next.js, Vue.js, Node.js, Express
- AI/ML & Data Science:** PyTorch, TensorFlow, Scikit-learn, OpenCV, YOLO, Pandas, NumPy, Cuda
- Blockchain:** Hyperledger Sawtooth, Hyperledger Fabric, Solidity, Web3.js
- Databases:** PostgreSQL, MongoDB, Redis, Qdrant Vector DB
- DevOps & Cloud:** Docker, Kubernetes, AWS, GCP, GitLab CI/CD, REST APIs, GraphQL APIs, Microservices
- Real-time & Graphics:** WebRTC, WebGL, Three.js, WebSockets, Canvas API
- Security:** AES-GCM, RSA-4096, Ed25519, Zero-Knowledge Protocols, Cybersecurity Threat Detection

PROFESSIONAL EXPERIENCE

Freelance Technical Consultant & Team Lead | Remote | Feb 2021 – Present

Served 20+ projects for international clients in Healthcare AI, FinTech, E-commerce, and AgTech across Europe, America, and Asia.

Led and managed cross-functional development teams of 2-10 developers through full software lifecycle, delivering projects ranging from \$5K-\$90K consistently under budget and ahead of deadlines.

- AI Solution for Healthcare Startup:** Engineered a customer churn prediction system using Django and Gemini AI, integrating CNN+BiLSTM models to process over 50,000 customer records monthly. **Result:** Reduced client churn by 12%, generating over \$200,000 in annual cost savings.
- Blockchain Architecture for FinTech:** Architected and implemented a high-performance, blockchain-backed memory system using Hyperledger Sawtooth and Qdrant Vector DB. **Result:** Achieved sub-200ms query latency across 10,000+ daily requests with 99.9% uptime, enabling stateful LLM applications for enterprise use.
- IoT & ML for AgTech Client:** Built an intelligent IoT smart irrigation system with ML-powered predictive scheduling algorithms. **Result:** Reduced water consumption by 30% while simultaneously improving overall crop yields.
- E-commerce Platform Development:** Developed a scalable, enterprise-grade e-commerce platform from the ground up featuring a real-time auction system and a multi-tenant architecture. **Result:** Successfully supported a catalog of 100,000+ products with high availability.

Cybersecurity & AI Research Consultant | Mar 2024 – Dec 2024

- Researched and developed advanced hybrid ML models (CNN-Transformer-BiGRU) for cybersecurity threat detection, achieving an F1 score of 0.96 for DDoS and 0.94 for phishing detection on production-level datasets.
- Deployed trained models as containerized REST microservices within a Kubernetes cluster for scalable inference.
- Enhanced network security monitoring by building Streamlit-based threat visualization dashboards delivering packet-level insights; dashboards processed 1M+ packets per minute, improving threat visibility.
- Conducted in-depth research on emerging threats at the intersection of AI and cybersecurity, with a focus on blockchain vulnerability analysis.

EDUCATION

Ibn Tofail University | Kenitra, Morocco

Master of Science in Artificial Intelligence and Cybersecurity | Expected 2026

Relevant Coursework: Advanced Network Security, Machine Learning, Distributed Systems

Research Focus: Blockchain security, AI threat detection

Ibn Tofail University | Kenitra, Morocco

License in Computer Science | Jul 2024

Relevant Coursework: Data Structures and Algorithms, Database Systems, Software Engineering

ADDITIONAL INFORMATION

CERTIFICATIONS & RECOGNITION: IBM SkillsBuild Cybersecurity Analyst (2024) | Google Digital Marketing Fundamentals (2023) TryHackMe Advent of Cyber Badge (2024)

LANGUAGES: Arabic: Native | English: Fluent | French: Fluent | Spanish: Conversational | Russian: Basic