

Abd Ennour Abbes

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EDUCATION

Master's in Information Systems & Knowledge Engineering

University of Tlemcen

Thesis: *Leukemia Detection AI System* · Relevant Coursework: System Architecture, Database Engineering, AI, Advanced Algorithms

TECHNICAL SKILLS

Backend & APIs: Node.js, Python, REST, OAuth2, JWT, Webhooks · **Frontend:** React, Next.js · **Data:** PostgreSQL, Cloud SQL, schema design · **Cloud/DevOps:** GCP, Docker, CI/CD · **AI/ML:** TensorFlow, CNNs, Python

EXPERIENCE

Software Engineer · Powertrip Games LLC

Apr 2024 – Present

- Designed and maintained RESTful APIs (Node.js) with OAuth2 authentication; integrated Stripe & PayPal via Webhooks ensuring 100% payment reliability across web, mobile, and desktop.
- Engineered Google Cloud SQL schemas for user data and transaction history, achieving sub-second query performance under peak concurrent load.
- Built CI/CD pipelines automating build, testing, and multi-platform deployment (iOS, Android, WebGL), eliminating manual release bottlenecks.
- Containerised services on Google Compute Engine with Docker; configured horizontal auto-scaling and cross-region state sync, cutting load times by 30%.
- Resolved 50+ concurrency bottlenecks through systematic stress testing across a high-load distributed system.

PROJECTS

Leukemia Detection AI — Python · TensorFlow · React · Node.js

Thesis project · end-to-end diagnostic AI system

- Trained 4 integrated CNNs on 10,000+ labeled blood-smear images to classify leukemia type and stage with 82% accuracy.
- Deployed cross-platform (Web, Mobile, Desktop via Briefcase) — single image upload triggers full diagnostic pipeline instantly.

Real-Time Multiplayer Platform — Node.js · SQL · Cybersecurity

Full-stack distributed system · server-authoritative architecture

- Architected a browser-based multiplayer game backend with uWebSockets.js, JWT auth, server-authoritative physics, and real-money cashout logic via Stripe.
- Designed PostgreSQL + Redis data layer for live game state, leaderboards, and financial transactions with horizontal scalability.

Neural Network Visualiser — JavaScript · Canvas API

- Built an interactive XOR neural network that trains from scratch in the browser, rendering animated forward-pass and backpropagation with live loss curves — no ML libraries.

CERTIFICATIONS & LANGUAGES

EF SET C1 Advanced (English) [Link](#) · **Languages:** English (C1) · Arabic (Native) · French (Intermediate)