

ANAS MTAWEH

Junior Full Stack Developer

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SUMMARY

Practical junior full stack developer with hands-on experience building, shipping, and deploying web applications. Comfortable working across frontend and backend stacks, creating basic CI/CD pipelines, and deploying containerized services to AWS. Strong foundation in software development, databases, and applied machine learning from academic projects. Seeking an entry-level software engineering role where I can learn from experienced engineers and contribute to real production systems.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), Python, Java, SQL, Git
- **Web Stack:** Node.js, Express, React, REST APIs, MongoDB
- **Cloud & DevOps:** Docker, AWS EC2, AWS S3, GitHub Actions (basic CI/CD)
- **AI & ML Tools:** PyTorch, OpenAI API (academic and project use)
- **Other:** Authentication, role-based access control, automated jobs, pre-signed S3 uploads

PROJECTS

Mishtika – Pet Care Management Platform

Node.js, React, MongoDB, Docker, AWS

- Designed and deployed a containerized full-stack application on AWS EC2 using Docker, AWS ECR, and GitHub Actions CI/CD.
- Implemented secure media handling with AWS S3 pre-signed URLs to ensure time-limited, private access to user uploads.
- Built an automated background scheduling service using node-cron, supporting recurring events with exception dates.
- Used MongoDB TTL indexes to automatically expire password reset tokens and enforce idempotent email reminders.
- Integrated a context-aware AI assistant using the OpenAI API, dynamically enriching prompts with structured pet health data.

Checkers AI Agent — Deep Reinforcement Learning R&D

Python, PyTorch, Ray, NumPy, Flask

- Achieved Grandmaster-level performance using custom DQN and AlphaZero architectures, validating the agent via black-box testing against a commercial Expert Mode mobile engine (technical draw) and defeating a Depth-10 Stockfish-lite engine (2–0).
- Solved critical hardware latency bottlenecks by architecting a hybrid training pipeline using Ray.
- Diagnosed and fixed infinite shuffle convergence loops by implementing Dynamic PUCT scaling.
- Mitigated catastrophic forgetting by designing a curated replay buffer strategy.
- Developed a Flask-based interactive interface for real-time human-vs-AI play.

WORK EXPERIENCE

Production Operator

Jun 2023 – Aug 2023

Liban Jus, Beirut

- Worked with a team to maintain production flow and resolve operational issues.
- Followed standard operating procedures and supported quality checks.

Cashier

Jun 2021 – Mar 2022

Stop4Cup, Aley

Processed purchases, balanced end-of-shift cash totals, delivered customer support, and operated POS systems.

EDUCATION

Bachelor of Science in Computer Science

Lebanese International University (LIU), Beirut, Lebanon

Focus on software development, artificial intelligence, and database management

CERTIFICATIONS

- AWS Certified Cloud Practitioner (2025–2028)
- Introduction to DevOps – IBM & Coursera