

ALI AL RIDA HAIDAR

Senior Software Engineer | AI Engineer | Tech Lead

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PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer and AI Specialist with 5+ years of experience architecting scalable enterprise solutions and co-founding innovative tech startups in the Real Estate and SaaS sectors. Expert in Full-Stack development (Java Spring Boot, MERN), Cloud-Native architectures, and integrating Large Language Models (LLMs) into production environments. Proven track record of leading technical teams, optimizing system performance, and delivering robust, high-availability products that drive measurable business outcomes.

PROFESSIONAL EXPERIENCE

Work Experience — AI Guardian

Apr 2025 – Present

Senior Software Engineer — Computer Vision & Full-Stack (Beirut, Lebanon)

Built and shipped an end-to-end AI-driven physical-security platform for gated communities, combining real-time computer vision (face + license-plate recognition) with a resident-facing web portal and a production microservices backend.

- **Computer Vision Pipeline** — Designed and delivered a real-time Lebanese license-plate recognition system using YOLOv8 for detection and PaddleOCR for OCR, including dataset labeling, model training, ONNX/TFLite conversion, and accuracy benchmarking against a curated test set.
- **Face Recognition & Tracking** — Contributed to a multi-stage face pipeline (detection → tracking via ByteTrack → recognition → identity database), enabling automated identification of residents, guests, and unknown visitors at community entry points.
- **Microservices Architecture** — Built and integrated 15+ TCP-based service daemons (Face Detection/Recognition/Tracking, Plate Detection/OCR, Vehicle Detection, Camera, Database, Email, Notification, Login, Report, Request, Resident, Document, Communication) on a CUDA/cuDNN GPU stack.
- **Resident Web Portal** — Led full-stack development of the resident portal: Flask + gunicorn backend with a React + TypeScript + Vite + Tailwind + shadcn/ui frontend, covering authentication, visitor pre-registration, delivery scheduling, monthly reports, file center, and a real-time notifications inbox wired to backend actions.
- **Database Integration** — Migrated the portal from in-memory state to a fully MySQL-backed implementation through a custom DatabaseServer client, including idempotent schema bootstrap migrations and seed scripts.
- **Production Hardening (Phase A + B)** — Delivered a security and reliability baseline: enforced FLASK_SECRET_KEY validation, secure session cookies, Flask-Limiter rate limiting, bcrypt password hashing, CORS allow-listing, X-Forwarded-* proxy trust, structured logging, health probes, and refusal-to-boot guards against debug/demo flags in production.
- **Deployment** — Authored single-node production deployment (gunicorn + Nginx reverse proxy, TLS, systemd-style runner scripts, .env-driven config) and runtime tooling (run.sh / run_prod.sh) for repeatable local and prod builds.

Senior Software Engineer | Elékron Ventures

Apr 2025 – Jan 2026

- Lead backend and full-stack development for enterprise solutions using AWS, Docker, TypeScript, and NestJS, resulting in highly available and performant systems.
- Architected scalable cloud-native and hybrid solutions, ensuring high availability and peak performance for mission-critical business applications.
- Championed DevOps and CI/CD best practices, significantly streamlining deployment pipelines and reducing time-to-market.
- Integrated AI-powered features into core products, enhancing user engagement and overall product functionality.

Full Stack & AI Developer | Zyllo.io

Mar 2025 – Sep 2025

- Developed and deployed scalable web applications using FastAPI, React.js, and MongoDB, managing the complete development lifecycle.

- Integrated AI models and intelligent agents to automate key product functionalities, driving efficiency and accelerating innovation.
- Designed and implemented RESTful APIs, ensuring seamless frontend-backend integration and high-throughput data transfer.

Software Engineer | Risk Control

Oct 2023 – Apr 2025

- Refactored legacy backend systems using Java Spring Boot and OOP principles, significantly improving code quality, maintainability, and test coverage.
- Integrated Redis for caching and real-time data processing, improving application response speed by 30%.
- Deployed microservices architecture using Docker, reducing environment setup time and ensuring consistent, repeatable deployments.

Frontend Developer & UI/UX Designer | OUREASYGAME

Apr 2023 – Oct 2023

- Designed and developed responsive, pixel-perfect interfaces using React.js and Figma, translating wireframes into production-ready UI components.
- Ensured cross-browser compatibility and optimal user experience across all major platforms, improving accessibility and engagement metrics.
- Collaborated closely with the product team to iterate rapidly on UI designs, applying UX best practices to deliver intuitive user flows.

Frontend Developer Intern | Monty Mobile

Jan 2023 – Apr 2023

- Built and maintained UI components using React.js, JavaScript, and SCSS, contributing to multiple live product features in an agile environment.
- Applied UI/UX design principles to deliver clean, responsive interfaces aligned with brand guidelines.
- Leveraged Jira for sprint tracking and GitLab for version control, gaining hands-on experience with professional development workflows.

FREELANCE & PERSONAL PROJECTS

Principal & Tech Lead | Meyraki INSIGHT

2024 – Jan 2026

- Co-founded an AI-powered spatial intelligence platform leveraging ML and computer vision for the hospitality and design sectors.
- Led end-to-end development across backend, frontend, and AI model pipelines; built agents that predict spatial usage and recommend actionable design improvements.
- Spearheaded technical strategy and DevOps automation, enabling scalable deployments and reliable system performance at scale.
- Selected as a Top 5 Finalist at the Future Hospitality Summit (FHS) Riyadh, validating market potential and innovation.

Principal & Lead Software Engineer | Home History

2024 – Jan 2026

- Co-founded a real estate transparency platform — a “Carfax for Homes” — delivering property history and data to buyers and agents.
- Architected the full-stack system with React.js and backend microservices, built to handle complex property records and high data throughput.
- Designed for data integrity and rapid retrieval of historical property data, significantly improving the end-user experience.
- Drove the full software lifecycle from concept to MVP deployment, focused on scalability and long-term maintainability.

AI Software Engineer & Consultant | Ivy & Company

Apr 2025 – Feb 2026

- Designed and deployed AI-driven solutions for 10+ corporate clients, bridging innovation gaps with startup agility and enterprise-scale transformation.
- Implemented ML models and AI tooling across client projects, delivering measurable business impact.
- Trained and consulted internal teams on AI best practices, accelerating adoption and operational efficiency.

Software Developer | Freelance

2021 – Present

- Delivered 15+ full-stack and AI-focused projects for international clients and tech startups across diverse industries.
- Built end-to-end solutions including full-stack apps (TypeScript, React, Node.js, SQL), AI-powered chatbots (LangChain, LLMs), and scalable data pipelines.
- Operated as both individual contributor and team lead, maintaining high standards of code quality, performance, and client satisfaction.

SKILLS GAINED

Languages & Core

Python 3.12, TypeScript, JavaScript (ES6+), SQL, Bash

Computer Vision / ML

YOLOv8 (Ultralytics), PaddleOCR, EasyOCR, OpenCV, PyTorch, ONNX, TFLite model conversion, dataset labeling & augmentation, model evaluation (confusion matrix, mAP), ByteTrack multi-object tracking

Backend

Flask, gunicorn, REST API design, TCP socket services, microservices architecture, session auth, bcrypt, Flask-Limiter rate limiting, CSRF/secure-cookie hardening

Frontend

React 18, TypeScript, Vite, Tailwind CSS, shadcn/ui, Radix UI, React Router, React Query (TanStack), React Hook Form + Zod, Sonner toasts, Recharts, Vitest

Data & Infra

MySQL schema design + migrations, CUDA / cuDNN / NVIDIA driver setup, GPU inference, Nginx reverse proxy + TLS, Linux service deployment, .env-based config management, structured logging & health checks

Tooling & Practices

Git / GitHub (multi-repo workflows, feature branches, code review), bun / npm, Python venvs, pip editable installs (pip install -e .), idempotent bootstrap scripts, security baselining, production vs. demo environment separation

EDUCATION

Bachelor's Degree in Computer Science | Lebanese University | 2019 – 2023

CERTIFICATIONS

- LangChain: Build LLM Applications — Udemy
- LangChain for LLM Application Development — DeepLearning.AI
- Back End Development and APIs (Spring Boot) — freeCodeCamp
- Complete Node.js Developer — Zero To Mastery Academy
- React + Redux — SoloLearn