

NADIM OUERTANI

Software Engineer | Backend Developer

Backend Systems | Software Architecture | Financial Platforms | AI-Assisted Engineering

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PROFESSIONAL SUMMARY

Senior Software Engineer with 7+ years of experience designing, developing and modernizing business-critical software platforms across iGaming, financial services, real estate, logistics and enterprise environments. Strong background in backend engineering, software architecture, UML architecture planning, financial transaction platforms, semantic search, legacy modernization and production-grade delivery. Known for taking ownership of complex systems, mentoring engineers, reviewing production code, improving delivery speed with AI-assisted engineering tools and turning business requirements into reliable software.

TECHNICAL SKILLS

Backend & Frontend: PHP, Laravel, Python, FastAPI, JavaScript, React, REST APIs

Architecture: System Design, Software Architecture, UML Architecture Planning, Service-Boundary Design, Legacy Modernization

Data & Search: MySQL, DynamoDB, Elasticsearch, Semantic Search, Redis, Production Database Analysis

Cloud & DevOps: AWS, Docker, Linux, GitLab CI, GitHub Actions, Jenkins, Argo CD, Git

AI-Assisted Engineering: OpenAI Codex, Claude Code, codebase exploration, refactoring support, test scaffolding, documentation acceleration

Quality: PHPUnit, code reviews, technical interviews, incident investigation, production release validation

PROFESSIONAL EXPERIENCE

Senior Software Engineer - Online Gaming & Betting Platform | Aug 2025 - Present

- Design and maintain backend services for deposits, withdrawals, wallet operations, betting workflows and customer account management in a high-volume financial transaction environment.
- Modernize legacy functionality into service-oriented architectures while reducing technical debt, improving maintainability and lowering operational complexity.
- Build Elasticsearch-powered search capabilities and semantic search workflows to improve operational discovery, investigation and internal support efficiency.
- Use OpenAI Codex and Claude Code to accelerate codebase exploration, refactoring plans, test scaffolding and technical documentation while keeping engineer review and production controls in place.
- Review production-ready code, mentor engineers and contribute to architecture, technical planning, incident investigation and production troubleshooting.
- Collaborate with cross-functional teams across Dubai, Georgia and Manila supporting high-volume betting and financial operations.

Senior Software Engineer - Real Estate Technology Company | Dec 2021 - May 2025

- Designed and developed a centralized CRM platform supporting sales, marketing, lead management, campaign execution and operational reporting.
- Built a lead acquisition ecosystem connecting landing pages, marketing campaigns, CRM workflows, external lead providers and business automation.
- Designed semantic search and lead-matching workflows using Elasticsearch and production database insights to improve discovery, segmentation and operational follow-up.
- Trained and evaluated data-driven matching models on production database snapshots with controlled access, validation checks and business feedback loops.
- Conducted technical interviews, mentored developers through code reviews and participated in architecture decisions, estimation and sprint planning.
- Delivered a complete lead acquisition ecosystem improving conversion efficiency, operational visibility and business growth.

Software Engineer (Contract) - UK Enterprise Technology Project | Jan 2023 - Aug 2023

- Led UML architecture planning and service-boundary design for modernization of a legacy monolithic platform, clarifying modules, ownership and communication patterns before implementation.

- Reduced technical debt by documenting decomposition paths, modular boundaries and migration priorities to improve long-term maintainability.
- Participated in architecture design, migration planning and technical decision-making with senior stakeholders.
- Delivered as a project-based contract alongside the full-time Real Estate Technology Company role, with employer consent.

Software Engineer (Contract) - Italian Technology Project | *Mar 2024 - Sep 2024*

- Developed backend services using Python, FastAPI and DynamoDB for scalable content distribution solutions used by European clients.
- Worked within cloud-native and API-driven architectures with attention to performance, data flow and operational reliability.
- Delivered as a project-based contract alongside the full-time Real Estate Technology Company role, with employer consent.

Backend Developer - Port & Logistics Technology Project | *Jun 2021 - Dec 2021*

- Developed subscriber management platforms and customer-facing business applications for operational users.
- Built Laravel-based enterprise solutions supporting workflows, business users and stakeholder-requested enhancements.

Web Developer - Digital Solutions & Web Development | *Jun 2019 - May 2021*

- Developed CMS solutions, websites, landing pages and database-driven applications using PHP, SQL, HTML, CSS and JavaScript.
- Worked directly with business stakeholders to deliver customer-facing digital platforms and practical business tools.

ADDITIONAL PROJECTS

French E-commerce Platform

- Delivered a complete e-commerce platform in 3 months, including secure payment processing, inventory management and production-ready business workflows.

Multi-vendor E-commerce Platform (Dubai)

- Built a comprehensive multi-vendor e-commerce platform with integrated payment gateways and REST APIs for a Dubai media and marketing business.

Web & Mobile E-commerce - Lebskom

- Led ground-up development of a web and mobile e-commerce platform using SOLID principles and maintainable backend architecture.

LEADERSHIP

Technical Interviews | Technical Mentoring | Pull Request Reviews | Production Release Validation | Architecture Participation | Project Estimation & Planning | Cross-Team Collaboration | Agile Delivery | Stakeholder Communication

EDUCATION

Licence Fondamentale en Gestion Appliquee a l'Informatique - University of Tunis El Manar, Tunisia (2019)

LANGUAGES

Arabic (Native) | French (Professional Working Proficiency) | English (Full Professional Proficiency)