

BASHAR MODALLAL

SENIOR SOFTWARE ENGINEER | AI ENGINEER

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7+

YEARS IN PRODUCTION

250M

RECORDS OPTIMIZED

99.9%

INDEXING RELIABILITY

95%

FEWER IMPORT FAILURES

PROFESSIONAL PROFILE

Senior Software Engineer and AI Engineer with 7+ years of experience delivering production-grade web platforms, data-intensive systems, real-time products, and applied AI solutions. Proven success optimizing workloads at enterprise scale, with strong ownership across architecture, backend and frontend delivery, data systems, cloud operations, performance, and cross-functional collaboration.

CORE EXPERTISE

BACKEND & APIS

PHP, Laravel, Yii2, CodeIgniter, Node.js, Express, Nest.js, Strapi, Python, Django, REST APIs

FRONTEND

TypeScript, React, Next.js, Vue.js, HTML, CSS, Redux, Zustand, Jest, accessible UI

DATA & INFRASTRUCTURE

MySQL, SQL, MongoDB, Redis, Docker, Linux, AWS Lambda, S3, queues, caching, partitioning

AI & ENGINEERING

ChatGPT API, LSTM, YOLO, OCR, NumPy, Pandas, SciPy, scikit-learn, A/B testing, system design

PROFESSIONAL EXPERIENCE

Software Engineer

JUL 2023 - PRESENT

Curve Spark | Dubai, UAE

TECHNOLOGIES PHP (Yii2, CodeIgniter), Python, Django, MySQL, Redis, scikit-learn, A/B testing

- Extended MailWizz with a tree-based segmentation builder for nested marketing rules; redesigned the data path with partitioning, database views, and staged Redis caching to reduce query latency by 60% across 250 million records.
- Built a chunked CSV ingestion pipeline with queues, Redis-backed caching, and SQL deduplication, processing 20 million addresses 30% faster while preserving uniqueness.
- Delivered admin modules and role-aware REST APIs for deals, statistics, notifications, user management, and multi-image workflows.

Software Engineer

MAR 2022 - JUN 2023

AI-Ebtikhar Educational Aids | Ajman, UAE

TECHNOLOGIES Laravel, Node.js, Strapi, Socket.IO, Vue.js, Next.js, SQL

- Engineered a call-monitoring platform supporting 200+ daily calls across 12 advisors; reduced ticket creation latency by 50%, improved response time by 40%, and maintained 99.8% uptime.
- Built live teacher-activity dashboards with sub-second Socket.IO updates for 10+ concurrent sessions, reducing issue-detection time by 30% and improving operational oversight by 25%.
- Developed CRM and e-learning capabilities for children and adults using a modern full-stack architecture.

Front End Engineer - Remote

MAY 2021 - NOV 2021

Lone System | Germany / Damascus

TECHNOLOGIES TypeScript, React, Jest, Redux, Zustand, Figma, video streaming, browser extensions

- Translated Figma designs into responsive, accessible educational interfaces and integrated frontend components with backend services.
- Worked in Scrum to refine user stories, estimate delivery, review code, and maintain consistent engineering quality.

PROFESSIONAL EXPERIENCE - CONTINUED

Software Engineer

NOV 2020 - APR 2021

Lableb Cloud Search | Damascus, Syria

TECHNOLOGIES PHP, Laravel, WordPress, Shopify, Redis, Laravel Horizon, CRON

- Designed and maintained multi-tenant cloud search infrastructure and Arabic-language analyzers, tokenizers, and stemming pipelines for fast, accurate retrieval at scale.
- Built WordPress integrations for autocomplete, faceting, and real-time indexing; supported up to 500,000 documents per site, reduced full reindexing time by 40%, and sustained 99.9% reliability.
- Authored a reusable Laravel search SDK and background-job workflow that reduced batch import failures by 95% and increased indexing throughput by 35%.

Full Stack Web Developer

JUL 2019 - OCT 2020

Tradinos | Damascus, Syria

TECHNOLOGIES PHP, Laravel, CodeIgniter, HTML, CSS, jQuery, REST APIs

- Delivered tailored web platforms and responsive interfaces for outsourcing clients, converting business and UI requirements into maintainable production software.
- Built REST APIs and automation workflows for food delivery, raw-material trading, and food-production operations within Agile cross-functional teams.

FEATURED UAE GOVERNMENT PROJECT

Sharjah Media Council ePortal

Bilingual government e-services platform covering company registration and the complete media-permit lifecycle, from application and internal review to payment, certificate issuance, and renewal.

Backend focus: scalable APIs, secure role-based workflows, auditable approvals, private assets, and integration readiness for UAE PASS, Sharjah Economic Development Department, Tahseel, Sharjah Digital Department, and Etisalat SMS.

PERSONAL MOBILE PROJECT

SmartRecipeHub / DishPlan

MOBILE DEVELOPER

Personal Flutter project for English and Arabic users to discover and save recipes, plan weekly meals, create shopping lists, and follow guided cooking steps. Published on Google Play.

Google Play: [com.smartrecipehub.app](https://play.google.com/store/apps/details?id=com.smartrecipehub.app)

APPLIED AI PROJECTS

- ArabPoemGen - Character-level LSTM pipeline for cleaning, normalizing, tokenizing, and generating Arabic poetry.
- Music Emotion Recognition - Machine-learning pipeline combining emotion annotations with acoustic features to predict musical arousal.

EDUCATION

B.Sc. in IT Engineering - Artificial Intelligence

Damascus University, Syria | Sep 2015 - Sep 2021

GPA: 73.10%

ADDITIONAL PROJECTS

- Cloth Simulation Engine - Real-time Java/JavaFX particle simulation with custom constraint and collision optimization.
- Fitnet - Laravel REST backend with JWT authentication, subscription management, and Postman support for mobile integration.
- Al Qalmoun Language Institute - Multilingual WordPress solution optimized for performance and secure administration.

LANGUAGES & PROFESSIONAL PRACTICE

Arabic - Native | English - Fluent

Agile / Scrum, system design, software development lifecycle, performance optimization, code review, technical documentation, problem solving, and stakeholder collaboration.