

Mohammad Shaban

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EDUCATION

University of Southern California

M.S. in Computer Science, Artificial Intelligence

Expected May 2028

Los Angeles, CA

- Coursework: Analysis of Algorithms, Machine Learning, Deep Learning, Foundations of AI, Web Technologies

Boston University

B.S. in Computer Science | GPA: 3.52/4.0 | Dean's List (3x)

Aug 2026

Boston, MA

- Coursework: Algorithms, Databases, Software Engineering, Computer Systems, Programming Languages, AI

TECHNICAL SKILLS

Programming: Python, Java, TypeScript, JavaScript, SQL, HTML, CSS, OCaml, x86-64 Assembly

Frameworks & Libraries: React, React Native, Expo, Node.js, FastAPI, SQLAlchemy, Pandas, JavaFX, Tailwind CSS

Databases & Cloud: PostgreSQL, SQLite, Supabase, Docker, Vercel, Railway, Render, Cloudinary

Tools & Practices: Git, GitHub, CI/CD, REST APIs, OAuth, Maven, Claude Code, Apps Script, Testing, OOP

AI & Data: LLM API Integration, Anthropic Claude API, Data Pipelines, ETL, Data Validation

Spoken Languages: Arabic, English

EXPERIENCE

National Trading

IT Intern, Information Technology

May 2023 – Aug 2023

Jordan

- Improved internal online services and workflows; diagnosed and resolved software issues affecting operations.
- Trained employees on internal tools and supported adoption of digital systems across operational teams.

PROJECTS

BarC: Calisthenics Scoring & Leaderboard App | *React Native, Expo, TypeScript, Supabase, PostgreSQL* 2026

- Shipped a React Native iOS app where athletes submit video-verified strength attempts and earn medal rankings.
- Designed a server-authoritative scoring engine with versioned, immutable snapshots for stable leaderboard history.
- Secured PostgreSQL with row-level security, signed uploads, quotas, rate limiting, and a moderation pipeline.
- Authored a transactional, self-verifying SQL migration to recalibrate scoring thresholds with automatic rollback.

Intelrev: Full-Stack AI Automation Platform | *React, Python, SQL, Claude API, Vercel* 2024 – Aug 2026

- Built full-stack web applications and AI automation workflows for small-business use cases.
- Architected end-to-end applications with React, Python, and SQL, from system design through Vercel deployment.
- Built Python/SQL ETL pipelines for data capture, validation, and automated reporting via Google Apps Script.
- Integrated LLM features with the Anthropic Claude API; accelerated development workflows with Claude Code.

Business Automation Analytics Dashboard | *FastAPI, React, PostgreSQL, Pandas, SQLAlchemy* 2025

- Built an analytics dashboard with CSV/Excel upload, Pandas cleaning and validation, and automated reports.
- Built FastAPI and SQLAlchemy REST API endpoints for authentication, analytics, charts, and report exports.
- Added SMTP alerting for revenue drops over 20%; deployed React on Vercel with a Railway PostgreSQL backend.

Tashafi: Bilingual Rehabilitation Platform | *React, Supabase, Cloudinary* 2025

- Built a full-stack rehab platform with separate doctor and patient apps and Arabic-first UX for MENA users.
- Implemented Supabase auth, password reset, deep links, Cloudinary video handling, and PDF progress exports.
- Built doctor workflows for assigning routines, tracking patient adherence, and exporting progress reports.