

# TAREK CHAALAN

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## PROFESSIONAL SUMMARY

Full-stack Software Engineer specializing in production-grade, transactional web systems across e-commerce, ticketing, and government-integrated platforms. Experienced in building end-to-end architectures – from interactive frontends and real-time validation to backend services, payment flows, and API integrations, with ownership of deployment, automation, and live production systems.

## EDUCATION

California State University, Fullerton  
Fullerton, California

**Bachelor of Science:** Computer Science  
Cum Laude (Honor w/ Distinction)

Relevant Coursework:  
Data Structures, Algorithms, Software Engineering, Web Front-End Engineering, Web Back-End Engineering, Operating System Concepts, Computer Communications, Algorithm Engineering, Artificial Intelligence, Network Security Fundamentals, Statistical Applications to Natural Sciences, Cybersecurity Foundations

## WORK HISTORY

### Group 7 EST - Software Engineer

Kuwait City, Kuwait • 09/2025 - Current

- Delivered a government-grade computer-vision attendance system for the Civil Service Commission (CSC), integrating CCTV face-recognition servers → custom middleware → CSC API to produce first-in / mid-day / last-out attendance records for employees.
- Architected and built a full production ticketing platform for *Kuwait Towers Garden*, including a custom interactive seat-map, tier-based pricing, real-time availability locking, and a secure end-to-end checkout flow integrated with local payment gateways.
- Developed and launched two full ecommerce platforms (*BirdMart* and *KuwaitMart*) featuring product catalogs, carts, checkout, authentication, admin panels, order analytics, and CMS-driven content.
- Built and maintained a multi-site CMS ecosystem powering the Group 7 corporate site and sister companies (*Hekaya World*, *Wefaq Law Firm*, *sector brands*), with shared design systems, responsive layouts, and content-driven publishing workflows.
- Owned production operations for these platforms, including CI/CD pipelines, live deployments, API uptime, and post-launch support for business and government users.

### AI Mailam & Shaalan Co - Systems Analyst

Kuwait City, Kuwait • 01/2025 - 08/2025

- Automated Quantity Control & Purchase Order systems end-to-end, centralizing 70+ supplier sheets into a live dashboard with alerts, removing the need for manual checks and missed reorder windows.
- Built a lightweight “Order Panel” with bulk actions, status tracking, and one-click CSV/XLSX exports, shortening weekly purchasing standups and streamlining supplier negotiations.
- Working with a small team to design and develop a role-based Controller that automates requests/approvals, centralizes docs and status, triggers alerts, and logs every move, so each department sees what it needs and nothing gets lost.

### Freelance - Software Engineer

Remote • 10/2021 - 08/2025

- Delivered multiple production websites with booking, ecommerce, CMS, and payments, deployed on Vercel/Cloudflare with CI/CD and zero-downtime updates.

### Cigo Tracker - Software Engineer

Montreal, Canada (Remote | Onsite summer/winter) • 02/2022 - 03/2024

- Built and maintained AWS-hosted data pipelines, relational databases (RDS), and operational dashboards used to track customer activity and logistics performance.
- Developed interactive frontend visualizations using Angular (TypeScript) and Apache ECharts to surface real-time and historical business metrics.
- Integrated and operated AWS services (EC2, S3, RDS) to store, process, and serve customer and event data across production environments.
- Deployed and managed production web applications through AWS infrastructure, ensuring reliability, scalability, and data integrity.
- Worked directly with product and operations teams to translate business requirements into working software used by internal stakeholders.

## LANGUAGES

English (Fluent), Arabic (Native)



## Projects

### **Fit-Fuel — Computer Vision Fitness App (Senior Capstone)**

- Trained an object-detection model for gym equipment (~85% precision)
- Built a cross-platform meal + workout tracking app using Firebase, Python, and Swift

### **Secure File Transfer System — Encrypted Client-Server App**

- Built a secure terminal-based file transfer tool using sockets, multithreading, AES/JWT auth, and checksum verification

### **ChessEloShield — Chrome + Firefox Extension**

- Developed a cross-browser extension that prevents tilt on Chess.com via configurable cooldown timers, DOM overlays, and persistent storage sync

### **Scheduly — AI-Assisted Productivity App**

- Built an AI scheduling app that converts natural-language plans into structured events/tasks with calendar sync, habit tracking, and local-first data handling

### **Local Chess Analyzer — Private Chess Analysis Tool**

- Created a local-run chess analyzer combining game parsing, engine insights, and performance visualization — avoiding cloud processing for speed and privacy

### **YT-AI — AI-Powered YouTube Content Analyzer**

- Built an AI pipeline to extract topics and insights from YouTube videos via automated transcript processing and summarization

### **KuwaitDrivingTest — Driving-Theory Practice Platform**

- Built a study platform with categorized questions, progress tracking, and mobile-friendly UI matching the official MOI exam style