# Belal Salah

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## Summary

I'm a Junior Frontend Engineer with experience in building applications using Angular and TypeScript. Experienced in state management with NgRx and Signals, API integration using RxJS. unit testing with jasmine and karma, optimizing performance, and developing responsive, maintainable UIs.

## Technologies

**Core & Frameworks:** HTML5, CSS3, Bootstrap, JavaScript, TypeScript, Angular

**State & Testing:** Angular Signals, RxJS, NgRx, Jasmine, Karma

**Tools:** Git, GitHub, Figma, Lighthouse, WebPageTest

**Concepts:** OOP, SOLID Principles , DSA, Alogrithms, RESTful APIs, SQL Basics

## Experience

**Data entry & research (part-time)**                                        *Maadi,cairo*
*Convertedin*                                                                *Feb 2024 - Present*

- Responsible for adding product data to the company's websites using Shopify.
- In addition, I work on tasks that involve researching companies with specific technologies and creating organized Excel sheets with it's detailed information.

## Education

**Misr university for science and technology**                               *Sept 2023 - Present*
*Faculty of Computer Science*

- Degree: Very good
- **Coursework:** Computer Architecture, Data Structures, Algorithms, Object-Oriented Programming, SQL

## Projects

**E-commerce Application**                    *Live Demo* ↗   *Backend Repo* ↗   *Frontend Repo* ↗

- Built with Angular and Boostrap using a modular, lazy-loaded architecture.
- Implemented Reactive Forms and Template-driven Forms for login, register, and checkout.
- Used services, guards, pipes, and environment-based configurations for clean structure and scalability.
- Applied OnPush Change Detection, hydration, and performance optimizations (CLS via aspect-ratio, WebP images, resource hints like preload, prefetch, dns-prefetch and more
- Fully responsive UI designed with Bootstrap 5.
- Developed secure JWT-based authentication with role-based access control (admin/manager/user) and password hashing using crypto-js.
- Built full RESTful CRUD operations for categories, products, users, and orders using a modular controller-service architecture.
- implemented custom reusable middleware for token verification, role protection, async error handling, and centralized error management.

**Kasper Template**                                          *Live Demo* ↗   *Frontend Repo* ↗

- A modern and responsive front-end website template built using HTML, CSS, and JavaScript.