Ziad Shalaby

Full-Stack Software Engineer (Django & Angular) · Beheira, Egypt
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Summary

Full-stack software engineer building complete products end to end with Django, Django REST Framework, and Angular. Experienced in designing REST APIs and crafting responsive, accessible Angular interfaces with Signals and Tailwind CSS, including real-time features (WebSockets, WebRTC), secure authentication, and payment integrations. Published an open-source Angular component library on npm. Seeking a software engineering role to build scalable, high-quality, user-focused products.

Technical Skills

Languages: Python, TypeScript, JavaScript, C++, Java
Frontend: Angular (Signals, RxJS, Standalone Components), Tailwind CSS, Bootstrap, HTML5, CSS3, PWA, Accessibility (WAI-ARIA)
Backend: Django, Django REST Framework, Django Channels, Celery, PostgreSQL, Redis, REST API Design
Full-Stack Concepts: JWT & OAuth2 Authentication, WebSockets, WebRTC, State Management, Caching, Atomic Transactions, Async Processing, Rate Limiting, Idempotency, Webhooks
Tools: Git, GitHub, Docker, FFmpeg
Computer Science: Data Structures, Algorithms, Object-Oriented Programming

Projects

Proton – Real-Time Chat & Video Calling | Backend | Frontend
Django, DRF, Django Channels, Daphne, Celery, Redis, PostgreSQL, SimpleJWT, Angular, TypeScript, Tailwind CSS, WebRTC, FFmpeg **2025 – Present**

- Built a full-stack real-time messaging platform with an Angular (Signals, Tailwind CSS) frontend and Django Channels backend, supporting instant messaging, read receipts, and media attachments processed with FFmpeg.
- Implemented secure authentication with JWT in HttpOnly cookies and Google OAuth2.
- Developed peer-to-peer WebRTC audio/video calling with WebSocket signaling (SDP offer/answer, ICE candidates), incoming-call handling, in-call controls, and proper connection cleanup.

Online Store – E-Commerce Platform | Backend | Frontend
Django, DRF, Angular, TypeScript, Tailwind CSS, PostgreSQL, Redis, Celery, JWT, OAuth2, Paymob **2025**

- Designed and built a full-stack e-commerce platform with an Angular storefront and DRF API covering product catalog, cart, orders, and reviews, with advanced filtering and pagination.
- Implemented secure authentication (JWT in HttpOnly cookies, OAuth2, CSRF protection).
- Ensured inventory consistency with atomic database transactions; integrated the Paymob payment gateway and used Celery + Redis for payment expiration and unpaid-order cleanup.

ngx-zs-component – Angular UI Library | npm | GitHub
Angular Signals, Tailwind CSS, TypeScript, npm **2025 – Present**

- Published and maintain an open-source Angular library with 20+ reusable, type-safe standalone components, 9 color themes, dark mode, and WAI-ARIA accessibility.
- Built form controls on Angular Signals Forms to simplify form state, validation, and architecture for zoneless applications.

Additional Projects

- **ZS-New-Tab** (GitHub, Firefox Add-on) – Offline-first customizable new tab extension for Chromium & Firefox with bookmark management and optional Google Drive backup.
- **code-merge** (GitHub, VS Code Marketplace) – Published VS Code extension that merges selected files/folders into a live markdown preview, useful for providing context to LLMs.
- **Vision-Based Human-Robot Interaction** (GitHub) – Real-time hand-gesture recognition via webcam controlling a 3D humanoid robot, with a live web dashboard.
- **Tazkeer** (GitHub, Live Demo) – Offline-first Tasbeeh & Dhikr counter PWA with categorized Azkar, history tracking, and dark mode.
- **PathToDone** (GitHub, Live Demo) · **Django Blog** (GitHub) – Task/goal tracking app; blog with authentication, post management, and comments.

Education

Damanhour University, Faculty of Computers and Information **2023 – 2027**
Bachelor of Software Engineering *Damanhour, Egypt*

Certifications

ITI – Developing Web Applications using Django & Angular (120 hrs) **Nov 2024 – Mar 2025**