

AHMED ABDUL-AZEM EL-BASTAWESY

Full-Stack Developer | React.js | Next.js | Node.js

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer specializing in React.js, Next.js, Node.js, Express.js, TypeScript, and JavaScript, with hands-on experience engineering scalable, responsive web applications and RESTful APIs. Skilled in architecting database-driven systems across MongoDB, MySQL, and PostgreSQL, implementing secure JWT authentication and role-based access control, and delivering performant, accessible user interfaces. Proficient in state management, API integration, and modern deployment workflows using Git, Docker, and Vercel. Committed to clean architecture, reusable components, and mentoring emerging developers.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, Python

Frontend: React.js, Next.js, Responsive Web Design, Accessibility (a11y), SEO Optimization

Backend & APIs: Node.js, Express.js, RESTful APIs, GraphQL, API Integration

State Management: Redux Toolkit, Zustand, React Query, Context API

UI & Styling: Tailwind CSS, shadcn/ui, Material UI, Bootstrap, Sass, Styled Components, Framer Motion

Databases: MongoDB, MySQL, PostgreSQL, SQLite

ORMs & Data Tools: Prisma, Mongoose, TypeORM

Authentication & Security: JWT, Role-Based Access Control (RBAC), Authorization

Forms & Validation: React Hook Form, Formik, Zod, Joi

Tools & DevOps: Git, GitHub, Docker, Vite, Webpack, Vercel, SourceTree, Figma

Concepts & Practices: OOP, Data Structures & Algorithms, Design Patterns, Agile, Unit Testing

Soft Skills: Communication, Leadership, Problem Solving, Team Collaboration, Critical Thinking, Mentoring, Adaptability, Analytical Thinking, Ownership

PROFESSIONAL EXPERIENCE

iSchool

2026 – Present

Programming Instructor — Digital Egypt Cubs Initiative (DEMI) | Cairo, Egypt

- Delivered 40+ live, project-based programming sessions to 100+ students under Egypt's national Digital Egypt Cubs Initiative (DEMI).
- Mentored learners through hands-on coding projects, driving a 90%+ project completion rate and measurable gains in problem-solving proficiency.
- Instructed core curricula spanning Python, Scratch, mBlock, and AI fundamentals through interactive, practical workshops.
- Designed structured lesson plans and assessments that reinforced computational thinking and independent debugging skills.

PROFESSIONAL TRAINING

Frontend Developer Intern

Sprints x Microsoft Summer Camp

Jul 2025 – Sep 2025

Web Masters

Nov 2024 – Feb 2025

CodeAlpha

Jun 2024 – Sep 2024

- Completed intensive, industry-aligned frontend engineering programs covering React.js, Redux Toolkit, TypeScript, Blazor, and Python.
- Engineered 11+ hands-on projects, strengthening expertise in component architecture, state management, and responsive UI development.
- Applied modern software architecture and Git-based version-control workflows to deliver production-style applications under professional mentorship.

PROJECTS

Clinic Management System

[GitHub](#) • [Live Demo](#)

Tech: Node.js, Express.js, TypeScript, MongoDB, Next.js, Tailwind CSS, Zod, Joi, shadcn/ui

- Engineered a full-stack, role-based clinic management platform supporting multi-clinic operations, appointment scheduling, and patient records.
- Implemented secure JWT authentication and role-based access control across administrator, physician, and patient roles.
- Designed schema-validated REST APIs with Zod and Joi to ensure data integrity and robust error handling.
- Structured a reusable shadcn/ui and Tailwind CSS component library to standardize the interface and accelerate feature delivery.

ERP System

[GitHub](#) • [Live Demo](#)

Tech: Next.js, TypeScript, Tailwind CSS, Zod, shadcn/ui

- Developed a role-based ERP platform for order and inventory management with real-time stock tracking and analytics dashboards.
- Integrated JWT authentication and RBAC to enforce granular, permission-based access across operational modules.
- Built responsive, component-driven dashboards surfacing key inventory and sales metrics for faster decision-making.
- Enforced end-to-end type safety with TypeScript and Zod validation across form and API layers to reduce runtime errors.

GradGuide — AI-Powered Research Platform

[GitHub](#) • [Live Demo](#)

Tech: React.js, Redux Toolkit, Tailwind CSS

- Built an AI-driven research platform featuring plagiarism detection, paper summarization, and automated grammar checking.
- Architected a centralized Redux Toolkit state layer to manage complex, multi-step research and training workflows.
- Delivered a responsive, accessible interface that streamlined academic review and improved content quality.
- Optimized state updates and component rendering to keep AI-assisted, multi-step workflows fast and responsive.

EduPress — Educational Content Platform

[GitHub](#) • [Live Demo](#)

Tech: React.js, TypeScript, Context API, Tailwind CSS

- Developed a performance-optimized platform serving 30+ curated technical articles with a save-for-later engagement feature.
- Implemented type-safe global state with Context API and TypeScript for maintainable, scalable components.
- Enhanced navigation and user engagement through responsive layouts and streamlined content discovery.
- Structured a scalable content architecture supporting consistent formatting and fast article navigation at scale.

E-Commerce Application

[GitHub](#) • [Live Demo](#)

Tech: React.js, Redux Toolkit, Context API, Tailwind CSS

- Engineered a responsive e-commerce application with product browsing, shopping cart, and wishlist management.
- Implemented user authentication and Redux Toolkit state management for a seamless, persistent shopping experience.
- Optimized component rendering and data fetching to improve responsiveness across devices.
- Structured modular, reusable UI components to support maintainable and scalable feature development.

(Portfolio includes additional projects demonstrating expertise in web development.)

EDUCATION

Bachelor of Science in Computer Science

2021 – 2025

Modern Academy, Maadi | Cairo, Egypt

VOLUNTEERING

Ex-Fresher

2023 – 2025

Team Leader & Frontend Instructor (Volunteer) | Maadi, Egypt

- Led and delivered frontend development and React.js courses and workshops, equipping students with job-ready engineering skills.
- Mentored aspiring developers in responsive UI development, component architecture, and modern JavaScript best practices.
- Coordinated a volunteer instructor team, standardizing curriculum content and improving cross-cohort knowledge sharing.