Mahmoud Ahmed

Full Stack Developer — Next.js | TypeScript | React

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Summary

Junior Full Stack Developer with 1+ year of hands-on experience building and deploying production web applications using Next.js, React, TypeScript, and Tailwind CSS. Skilled in backend development with Node.js, RESTful API design, and database management (PostgreSQL, Drizzle ORM). Experience with CI/CD pipelines, cloud deployments (Vercel, Netlify), and version control (Git, GitHub). Strong problem-solver with 100+ algorithmic challenges solved on Codeforces and LeetCode. Collaborative team player with excellent communication skills.

Education

Bachelor of Data Science, Faculty of Computer and Data Science   Oct 2022 – Jul 2026
Alexandria University | **CGPA: 3.6/4.0**

Experience

Shafei Vehicle Management App - Backend Developer (Freelance project) | [Live Demo]   Apr 2025 – Aug 2025
- Architected and developed RESTful APIs using Express.js 5, PostgreSQL, Redis, and Drizzle ORM, handling 500+ daily API requests.
- Designed and optimized 10+ database schemas for vehicle tracking, user management, and automated notifications.
- Integrated third-party services: AWS S3 for file storage, SendGrid for emails, and Wasender for WhatsApp notifications.
- Collaborated on frontend development using Next.js 15, React 19, Tailwind CSS, and Radix UI, improving page load time by 40%.

.NET Web Trainee - Digital Egypt Pioneers Initiative   Apr 2024 – Oct 2024
- Developed and deployed 2+ full-stack web applications using ASP.NET Core MVC, Web API, and Entity Framework Core.
- Co-led a team of 3 developers building "Learning World" educational platform serving 200+ users with course enrollment features.
- Built responsive, mobile-first UI components using Bootstrap 5, jQuery, and CSS3, achieving 100% cross-browser compatibility.
- Optimized SQL Server database queries reducing page load times by 30% through indexing and query refactoring.
- Practiced Agile/Scrum methodology with daily stand-ups, sprint planning, and Git-based version control.

Projects

MA Drive - Full Stack Developer | **[Source Code]** | **[Live Demo]**   Jan 2026 – Feb 2026
- Developed a full-stack Google Drive clone with user authentication, hierarchical folder management, and file upload functionality.
- Implemented secure authentication using Clerk OAuth2, file uploads via UploadThing, and database operations with Drizzle ORM.
- Built responsive UI with Next.js 15, React, TypeScript, Tailwind CSS, and shadcn/ui supporting desktop and mobile views.
- Deployed application to Netlify with automated CI/CD pipeline achieving 99% uptime.

Volunteer Work

Instructor, Project Engine by HackerRank Campus Club   Sep 2025 – Dec 2025
- Mentored 50+ first-year computer science students in Java programming fundamentals and problem-solving techniques.

Workshop Content Writer, HackerRank Campus Club   Feb 2024 – Jun 2024
- Authored and delivered 5+ Java OOP workshops covering inheritance, polymorphism, encapsulation, and design patterns.

Skills

Programming Languages: TypeScript, JavaScript, C#, SQL
Frontend: React, Next.js, TanStack Query, Tailwind CSS, shadcn/ui
Backend Development: Node.js, Express.js, Hono, ASP.NET Core MVC, ASP.NET Web API, RESTful APIs, Webhooks
Databases & ORM: PostgreSQL, MySQL, SQL Server, Drizzle ORM, Entity Framework Core, Redis
Auth & Cloud: OAuth2 (Clerk, BetterAuth), AWS S3, UploadThing
DevOps & Messaging: Git, GitHub Actions, Vercel, Netlify, Docker, Inngest, BullMQ
Development Practices: OOP, SOLID Principles, Design Patterns, Clean Architecture, Zod Validation, Agile, Unit testing
Problem Solving: Solved 100+ challenges on Codeforces and LeetCode (Algorithms, Data Structures, SQL)
Soft Skills: Strong communicator, fast learner, dependable, and proactive in team settings