

# Ahmed Khaled Fathy

## React Frontend Developer

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**GitHub:** <https://github.com/AhmedKhaledp-0>

**Portfolio:** <https://ahmed-khaled-portfolio-0.vercel.app>

### Summary

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Frontend Developer with 2 years of hands-on experience building modern, responsive web applications. Proven track record of optimizing web performance and delivering scalable solutions using React, TypeScript, and Next.js. Experienced in collaborative development environments with strong expertise in version control, UI/UX implementation, and integrating AI-powered features. Committed to writing clean, maintainable code and staying current with emerging technologies.

### Work Experience

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#### Part-Time Frontend Developer – 5DMATY

(Jan 2025 – July 2025)

- Led the optimization of web performance, achieving a 30% reduction in load time by implementing Tailwind CSS and optimizing image delivery strategies
- Enhanced user engagement by building responsive UI components and improving existing interfaces, resulting in improved user retention

### Projects

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#### Eyes on Earth [Demo](#)

- Interactive 3D satellite tracking platform visualizing 25,000+ satellites with real-time orbital positions and AI-generated summaries
- Implemented Web Workers for non-blocking computation, achieving smooth 3-second position updates with virtual scrolling for optimal performance
- Developed Express backend to handle authorized data fetching from Space-Track.org, satellite search queries, and AI summary generation
- Features comprehensive filtering system by orbit type, launch time, launcher, and country for advanced satellite data exploration
- Built with React, TypeScript, Tailwind CSS, Three.js (R3F), Gemini AI, Express, integrated Space-Track.org TLE data

#### Habitura [Demo](#)

- Comprehensive habit tracking application featuring user authentication, progress visualization, and streak management
- Built with Next.js, TypeScript, Tailwind CSS, Firebase for real-time data synchronization

#### FiscalFlow [Demo](#)

- Financial management platform with expense tracking, budget planning, and financial analytics
- Developed using Next.js, JavaScript, Tailwind CSS, Firebase with secure user data handling

#### PDF Analyze [Demo](#)

- AI-powered document analysis tool that extracts data and generates summaries from PDF files
- Integrated Gemini API for natural language processing, built with React, TypeScript, Tailwind CSS

#### ToTasky (DEPI graduation collaborative project) [GitHub](#) | [Demo](#)

- Collaborative task management application with real-time updates and AI-powered task suggestions
- React, TypeScript, Tailwind CSS, Gemini API, React Query for efficient state management

#### NEO\_SHERXE [GitHub](#) | [Demo](#)

- Interactive 3D space exploration application featuring near earth objects rendering and orbital mechanics
- Utilized React Three Fiber (R3F) for 3D graphics, implemented smooth camera controls and physics simulation

#### Maneuvers Task [GitHub](#) | [Demo](#)

- Web application for calculating and visualizing orbital maneuvers methods like hohmann, Bi-Elliptic transfer orbits
- React, TypeScript, Tailwind CSS, Chart.js for dynamic charts and real-time data presentation

Technical Skills

**Frontend:** React.js, Next.js, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS  
**State Management:** Redux, React Query, Context API  
**3D Graphics:** Three.js (R3F)  
**Tools & Version Control:** Git, GitHub, Linux

Professional Skills

**Collaboration:** Team Leadership, Cross-functional Communication, Code Reviews  
**Adaptability:** Continuous Learning, Technology Adoption, Fast-paced Environment Adaptation  
**Problem-Solving:** Critical Thinking, Analytical Skills, Debugging & Troubleshooting  
**Leadership & Management:** Team Leadership, Mentoring & Training

Education

**Bachelor’s in Space Navigation.** (Expected: Aug 2026)  
Beni-Suef University, Egypt

Certifications & Training

**DEPI Digital Egypt Pioneers Initiative** Frontend Development Track (2024)  
**Meta: Advanced React** (2024)  
**Meta: Principles of UX/UI Design** (2024)  
**Meta: React Basics** (2024)  
**Meta: HTML and CSS in Depth** (2024)  
**Meta: Programming with JavaScript** (2023)  
**Meta: Version Control** (2023)  
**Meta: Introduction to Front-End Development** (2023)

Extracurricular Activities

**IEEE Beni-Suef University Student Branch**  
**Head of Frontend Development Committee** (2025 – Present)  
• Leading the frontend development committee, overseeing technical projects and mentoring junior developers  
• Driving initiatives to enhance web development capabilities within the organization  
  
**Advanced Structure Member** (2024)  
• Contributed to organizational development and participated in advanced technical committees  
• Supported the planning and execution of technical workshops  
  
**Structure Member** (2023)  
• Active participation in IEEE BSU activities and technical committees  
• Collaborated on student-led projects and engineering initiatives

Languages:

- Arabic (Fluent)
- English (Intermediate)