AHMED KASHKOUSH

Software Engineer

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Summary

Open-source contributor and senior computer science student with knowledge in front-end development, algorithms, and scalable software architecture. Passionate about enhancing developer tools, automation, and user-centric web applications through impactful open-source contributions.

Experience

The Accord Project 🔗   PR#22

Open Source Contributor

- Open-source framework for smart legal contracts, enabling automation of legal agreements through structured templates
- Contributed to the template engine by implementing locale-based number and text synchronization using **TypeScript**, ensuring consistent document formatting across regions
- Developed unit tests with Jest to validate localization features and maintain reliability

Jenkins 🔗   PR#379

Open Source Contributor

- Leading automation server for CI/CD pipelines, widely used by developers worldwide
- Improved test coverage for the embeddable build status plugin by implementing comprehensive test cases for private methods through public interfaces
- Collaborated with core maintainers on security-focused refactoring using Java

Education

B.Sc. in Computer Science, Menoufia University   Sep 2021 – May 2025

- **Relevant Coursework:** Data Structures, Algorithms, OOP, Operating Systems, Databases, Networking, Computer Architecture, Logic, Discrete Math.

Technical Skills

- **Languages:** JavaScript, TypeScript, SQL, Bash, C, C++, Java

- **Technologies/Frameworks:** React, Next.js, Redux, TailwindCSS, SASS, Styled Components, Firebase, RESTful API, Markdown, Vite, Mocha & Chai

- **Developer Tools and Platforms:** Git, GitHub, VS Code, JetBrains, Trello, Linux, Figma

- **Skills:** Data Structures & Algorithms, Competitive Programming, Object-Oriented Programming (OOP), Object-Oriented Design (OOD)

Projects

The Wild Oasis 🔗 | *React, PostgreSQL, Styled Components*

- Single-page application (SPA) for hotel management, enabling guest check-in/out and customer data analytics
- Integrated **React Query** for state management, Context API for UI control, and **PostgreSQL** with Supabase.
- Enhanced UI/UX with **Styled Components**, **React Hook Form**, and dynamic modals using the **Compound Component pattern**
- Improved performance with server-side rendering and **React Query prefetching**

Chess Game 🔗 | *HTML, CSS, JavaScript*

- Engineered a fully interactive chess game, replicating chess.com mechanics with move validation, turn-based logic, and check/checkmate detection
- Designed modular architecture using the MVC pattern and ES6 modules, ensuring scalability and maintainability
- Implemented complex piece movements, including castling, en passant, and promotion, using OOP principles
- Developed a rule enforcement system based on UML-modeled game state, handling edge cases like stalemates and illegal moves

Forkify recipe website ↗ | *HTML, Sass, JavaScript*

- Developed a recipe app facilitating recipe search and addition for both users and chefs
- Designed relationships between components using the **MVC** architecture
- Implemented a search engine feature using Forkify API

Worldwise ↗ | *React, CSS modules, Firebase*

- Developed a Single Page Application for city tracking, utilizing a Leaflet.js Map for visual representation
- Managed application routing seamlessly through **React Router Dom**
- Implemented insertion, deletion, and retrieval functionalities for exercise locations via Firebase integration
- Handled state management and side effects using React Hooks such as useReducer, useState, useSearchParams, useEffect, and custom hooks alongside the **context API**

Car Rental ↗ | *React, Tailwind*

- Developed a fully responsive single-page application for use by car rental companies
- Organized components for reusability

Achievements

- Participated in ICPC ECPC qualifications 2022, 2023
- Solved over 1000 complex algorithmic problems on various problem-solving sites
- Completed more than 30 front-end challenges on UI challenge sites such as Frontend Mentors