Ahmed Kashkoush

Software Engineer

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in Ahmed Kashkoush   ⌨ ahmad-kashkoush   🌐 Portfolio

SUMMARY

Senior Computer Science student with skills in front-end development, data structures, and algorithms. Passionate about building innovative web applications. Developed projects like a chess game and a hotel management system. Active open source contributor across different tech stacks.

OPEN-SOURCE CONTRIBUTIONS

GitLab | Web-based DevOps platform combining source code management, CI/CD, and project management

- Replaced native Fetch with Axios for consistency and better error handling — PR
- Redesigned feature flag forms using Vue, which improved UX — PR
- Updated contributor success form optional fields using Vue, which improve UX — PR

The Accord Project | Framework for smart legal contracts and automation of legal agreements

- Added number and text synchronization to the template engine using TypeScript — PR
  - Built locale-based number and text formatter
  - Wrote unit tests with Jest to ensure accurate localization and maintain reliability

Jenkins | Automation server for CI/CD pipelines, widely used by developers

- Increased test coverage for Jenkins plugins using Java
  - Added tests for device connectivity handling — PR
  - Added security check tests — PR
  - Wrote mock-based tests for key classes — PR
  - Created JUnit-based unit test class which improved JaCoCo coverage — PR
- Improved plugin robustness by disabling unnecessary dependency loading — PR

Stdlib | JavaScript and Node.js library, with an emphasis on numerical and scientific computing applications.

- Implemented include method to fixedEndianArray and conducted benchmarks for measuring performance — PR

EDUCATION

B.Sc. in Computer Science, Menoufia University   **Sep 2021 – June 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 | Built a single-page hotel management application that manages check-in/out and customer analysis. Implemented a database using PostgreSQL and Supabase. Designed reusable dynamic components following the Compound Component pattern. Improved performance using React Query prefetching.

Chess Game | Implemented a Chess.com clone using JavaScript. Designed piece movements using OOP principles and MVC architecture.

Forkify Recipe Website | Built a recipe app that enables searching and adding recipes using JavaScript.

Worldwise | Built a city tracking application that enables insertion, deletion, and retrieval of exercise locations via Firebase integration. Managed application routes using React Router DOM. Managed state using React hooks like `useSearchParams`, `useEffect`, and `useReducer`.

Car Rental | Built a fully responsive landing page for car rental companies using React and Tailwind.

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