

Mykhailo Moskalenko

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EDUCATION

Nova Kakhovka Instrument Making Professional Pre-Higher College

Ukraine

Junior Bachelor's Degree in Software Engineering (Bachelor 2/3, GPA: 4.0)

September 2021 – June 2025

PROJECTS

French Cards Generator | *Next.js, TypeScript, Redux Toolkit, i18n*

August 2025

- Built an AI flashcard web app with Next.js that generates topic-based French vocabulary using GPT model and supports translations in 4 languages.
- Implemented duplicate avoidance by excluding the 200 most recently learned French words and persisted learned list and language preference in localStorage to maintain progress.
- Internationalized app across 5 locales and integrated client-side text-to-speech via the Web Speech API to play French pronunciations.

Blogging platform | *React, TypeScript, Redux Toolkit, Vite, Webpack, Jest, Cypress*

March 2025 – June 2025

- Built a blogging app using React, TypeScript, Redux Toolkit and Feature-Sliced Design (FSD) architecture to boost modularity and speed feature delivery.
- Created GitHub Actions CI/CD that runs ESLint/Stylelint, 35+ Jest and 5 Cypress suites with Loki visual tests, and auto-deploys the app to Netlify and publishes Storybook and test reports to GitHub Pages.
- Migrated the development build from Webpack to Vite, cutting compile time by 67%
- Implemented lazy-loaded reducers and code-splitting, reducing JS bundle size 18.6% and improving load times.
- Built an accessible, themeable UI library (20+ components) with a global theming tool enabling instant theme switching.

Calendar | *React, TypeScript, Redux Toolkit, React Router, Axios, Ant Design*

July 2024

- Architected a scalable frontend using a Feature-Sliced design pattern, separating concerns into 3 distinct modules to improve modularity and maintainability.
- Added client-side persistence via localStorage in Redux Toolkit thunks to create, view, and persist events.
- Created a secure authentication flow with protected routes in React Router, dynamically rendering pages based on user auth state managed in a dedicated Redux slice and persisted across sessions.
- Constructed an intuitive event creation process using Ant Design's Modal and Form components, managed through component state and seamlessly integrated with the Redux store upon submission.
- Simulated a REST API with Axios to fetch credentials for 2 predefined user accounts from a static JSON file

Cryptopin | *React, React Router, SCSS, Axios*

June 2024

- Developed a responsive crypto tracker in React with React Router and SCSS.
- Integrated CoinGecko API using Axios with 60-second auto-refresh for real-time market data.
- Optimized large lists with react-window virtualization (100+ items), reducing initial render time and ensuring a smooth user experience
- Structured the app into 5 pages and 15+ reusable components for maintainability.

COMPETITIONS

Participant of the Algorithms Olympiad

April 2024 – August 2024

- Devised efficient algorithmic solutions as part of a 5-member team in a programming contest with 100 participating teams.
- Facilitated weekly team code reviews to critique solutions and optimize code for scalability.
- Revamped a brute-force solution into an optimized algorithm, reducing runtime by 50%.

Website Development Competition Team Member

January 2023

- Collaborated with a team of 6 to design and develop a website for a prominent local author.
- Won 1st place out of 125 entries in the competition.

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, TypeScript

Technologies: React, Next.js, Redux Toolkit, React Router, SCSS, Webpack, Vite, i18n, Babel

Libraries: Jest, React Testing Library, Cypress, Storybook, Loki, Axios

Developer Tools: GitHub, GitHub Actions, CI/CD, VS Code, Figma, ESLint, Stylelint