

Mark Melnik

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TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, SQL (Postgres), HTML, CSS

Frameworks/Libraries: React, Redux, Query, NodeJS, Express, Spring, Astro

Tools/Technologies: Git, GitHub, ESLint, Vite, Jest, Cypress, REST APIs, JWT, WebSockets

Deployment/Operations: Docker, GitHub Actions, AWS (S3, EC2, Lambda)

WORK EXPERIENCE

Web Developer

April 2024 – Present

Vision Financial Group CPAs, LLP

Remote

- Developed and launched a fully responsive website with Astro, integrating scalable React/TypeScript components
- Configured Decap content management system to empower client's non-technical staff to manage content easily
- Streamlined development with CI/CD on GitHub Actions and Netlify, using feature branching and PR merging
- Created a testing suite using Vitest for unit tests and Cypress for end-to-end tests, ensuring robust code quality
- Enhanced site accessibility and visibility by adhering to WCAG standards and implementing SEO best practices
- Managed end-to-end project delivery from initial client consultation to post-launch support and documentation

PROJECT EXPERIENCE

BallerBlitz | *TypeScript, React, React Query, NodeJS, Express, PostgreSQL, Sass*

Demo | Source

- Developed a full-stack basketball app; users can forecast game outcomes, track stats, and connect with friends
- Established a data pipeline in Express to fetch, transform, and serve live scoreboard data to the React frontend
- Implemented JWT auth with refresh/access tokens and WebSocket email verification following OWASP guidelines
- Created 30+ RESTful endpoints for handling user authentication, game predictions, and friend interactions
- Enhanced frontend architecture with code-splitting, lazy loading, higher-order components, and React Portals
- Incorporated GitHub Actions workflow for CI/CD with feature branching and PRs, to build and deploy to Render

FitFinder | *TypeScript, React, Redux, Java, Spring, PostgreSQL, Sass, Docker*

Demo | Source

- Developed a full-stack fitness location app; users can browse categorized fitness locations and save favorites
- Designed and implemented a mobile-first, responsive UI using modular TypeScript/React/Sass components
- Leveraged Redux for clear and efficient state management, improving interactivity and code management
- Built a RESTful Java Spring API with CRUD, filtered search on an ORM schema; dockerized for deployment
- Integrated street map using OpenStreetMap/Mapbox API with location markers based on geospatial coordinates

Portfolio | *TypeScript, React, Astro, Sass*

Demo | Source

- Developed an elegant, single-page portfolio site showcasing projects and a personal profile, designed with Figma
- Leveraged the Intersection Observer API for scroll navigation and CSS keyframes, animations, and transitions
- Optimized page loads times using Astro's server-side rendering and partial hydration capabilities

ADDITIONAL EXPERIENCE

Resident Assistant

August 2019 – May 2022

Binghamton University Residential Life

Binghamton, NY

- Managed the social and academic development of over 25 residents by counseling them on a weekly basis
- Supported residents in overcoming challenges related to mental health, discrimination, and language barriers
- Mentored new resident assistants on role expectations and conflict resolution, fostering a positive work culture

Undergraduate Researcher

November 2020 – August 2021

Movement Disorders Laboratory (Parkinson's Disease)

Binghamton, NY

- Investigated neuroplasticity in dopaminergic and serotonergic systems and their effect on Parkinson's Disease
- Devised and executed a research methodology using a rat model to improve existing pharmaceutical therapies
- Coordinated time-sensitive procedures for accurate data collection and subsequent processing using SPSS

EDUCATION

Binghamton University

Binghamton, NY

Bachelor of Science in Integrative Neuroscience, Minor in Russian Studies, 3.91

August 2018 – May 2022