Joseph Miller

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EDUCATION

Michigan State University   East Lansing, MI
B.S. in Computer Science, Minor in Game Design and Development; GPA: 3.7   *Aug. 2022 – May 2026*

PROJECTS

Collab Board | *Next.js, TypeScript, React, Tailwind, WebSockets, Redis*   Jul. 2025 – Aug. 2025
- Developed a real-time collaborative task management app with drag-and-drop support (via dnd-kit) for categories and tasks.
- Implemented scalable WebSocket syncing architecture using Socket.IO, Redis pub/sub, and a custom Express server.
- Designed AI-assisted board creation by prompting OpenRouter's Mistral LLM for structured board templates from user input.
- Integrated secure user auth with better-auth, supporting email/password and OAuth (Google/GitHub) with Redis session cache.
- Deployed frontend on Vercel and backend WebSocket server on Render; optimized UI responsiveness across devices.

SummitAi | *Next.js, React, TailwindCSS, OpenRouter, Zod, Prisma, PostgreSQL*   Jul. 2025
- Created an AI-powered meeting summarizer that accepts PDF or raw text, generating structured output via Mistral 3.2.
- Summaries are broken down into sections (Title, Summary, Questions, Decisions, Actions, Tags) for clarity and reuse.
- Built a personalized dashboard for users with dynamic tag-based filtering and client-side substring search.
- Handled robust schema validation and form state using Zod + React Hook Form across frontend and backend.
- Deployed to Vercel with PostgreSQL as the primary datastore and Prisma ORM for database access.

DevBoard | *Next.js, TypeScript, TailwindCSS, Prisma, PostgreSQL, OAuth*   Jul. 2025
- Designed and implemented a job application tracker with CRUD operations and inline status updates.
- Supported email login with verification and OAuth (Google/GitHub) via better-auth and Nodemailer.
- Implemented pagination, column sorting, and mobile-friendly UI using shadcn/ui and TailwindCSS.
- Focused on accessibility and clean form UX with React Hook Form and schema validation via Zod.
- Used React Query to manage caching, loading states, and refetching while maintaining optimistic updates.

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, C/C++, C#, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js, TailwindCSS, shadcn/ui, Zod, Prisma ORM, React Query
Tools: Git, GitHub, GitLab, Vercel, Render, Postgres, Redis, WebSockets, Docker, Nodemailer