

Benjamin Papp

Full Stack Software Engineer

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SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Go

Frontend: React, Redux, Material UI, Tailwind CSS, HTML/CSS

Backend & APIs: Node.js, GraphQL, REST, Redis, PostgreSQL

Infrastructure & DevOps: Docker, Azure Pipelines (CI/CD), Linux, Vercel, Prometheus, Grafana, Git

AI Tooling: MCP server development, AI-accelerated & Agentic development workflows

EXPERIENCE

Full Stack Developer Intern | Gentex Corporation

05/2024–07/2025 · 11/2025–Present

- Led modernization of a core internal web platform (Webpack → Vite, Node 14 → 24, MUI v4 → v7, React 18), **clearing years of deferred dependency upgrades and unblocking the team's development workflow.**
- Built Playwright end-to-end test infrastructure from scratch and integrated it into **Azure CI**, establishing automated regression coverage for critical user workflows.
- **Optimized CI/CD** on a self-hosted Docker build agent: pipeline caching **cut average yarn install time ~70% (237s → 69s)**, plus esbuild-based minification; diagnosed a build defect that had been shipping unminified development bundles to production.
- Shipped advanced UI features (drag-and-drop workflows, lazy loading) that cut page load times by 40%, plus a code-diffing tool that streamlined test-plan review for engineers.
- Built internal applications **with React, Redux, GraphQL, SQL, and Redis**, optimizing queries and import tooling to significantly reduce data-processing time; instrumented services with Prometheus and Grafana for real-time observability.
- **Forked and maintain an open-source SMB2 client** (marsaud-smb2) to restore Node 24 compatibility, resolving NTLM/MD4 authentication breakage under OpenSSL 3.

Help Desk Technician | REMC1 — Hancock, MI

07/2025–11/2025

- **Designed and deployed an internal web application** that automated DHCP lease management, replacing a manual, error-prone process for the team.
- Identified workflow inefficiencies and rewrote Confluence documentation to standardize procedures and reduce onboarding gaps.

Student Manager, Computer Technician | Michigan Tech — Houghton, MI

09/2022–07/2025

- Automated reporting across ~200 hosts with a custom Python application, reducing a multi-hour task to under 2 minutes.
- **Supervised and mentored a team** of student technicians, managing ticket assignments and resolutions of campus-wide IT issues.

PROJECTS & OPEN SOURCE

VitalSource MCP Server — *TypeScript · Model Context Protocol · Playwright · Node.js*

- Built a Model Context Protocol server connecting AI assistants to VitalSource e-textbooks via Playwright browser automation — enabling chapter extraction, summarization, flashcard generation, and structured note export.

Never Satisfied Strength — neversatisfiedstrength.com — *React · TypeScript · Vite · Tailwind · Sanity CMS*

- Coaching-business site with a Sanity-backed CMS, a multi-step application form with Zod validation and progress saving, and a responsive AVIF/WebP image pipeline — 90+ Lighthouse across all categories with a 0.615s LCP.

One Asterisk Tech LLC — oneasterisk.dev — *React · TypeScript · React Router · Custom CSS*

- Production portfolio with deep-linkable routes, per-route SEO metadata, JSON-LD structured data, automated sitemap generation, and a custom design-token theming system with light/dark persistence.

CollegiateStrength.org — *Next.js · tRPC · Prisma · PostgreSQL · Supabase*

National collegiate powerlifting leaderboard (30+ lifters) ranking by age-adjusted DOTS; rebuilt the legacy app on a type-safe T3 stack with single-query SQL ranking (replacing an N+1 client scan), a nightly OpenPowerlifting ingest, and live Supabase Realtime updates.

EDUCATION

Michigan Technological University — Houghton, MI

MBA, Engineering Management

B.S. Computer Science, Cybersecurity Minor

Expected 05/2027