Eric Barch

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EXPERIENCE

Current Software — **Remote**
Full Stack Software Engineer — *August 2024 – Present*
- Current Software builds a utility billing platform to help utility companies manage operations, billing, and customer relations.
- Designed, developed, and implemented core features from concept to deployment.
- Integrated tRPC and Prisma to manage complex data models and build end-to-end type-safe APIs.
- Collaborated closely with team of full stack engineers to improve existing codebase and build greenfield projects.
- *Languages & Technologies:* Material UI, NextJS, Prisma, React, SQL, tRPC, TypeScript

Recurse Center — **Brooklyn, NY**
Recurser — *August 2023 – August 2024*
- The Recurse Center is a self-directed programming retreat. Primarily geared toward experienced developers on sabbatical, it has hosted notable engineers like Zig creator Andrew Kelley and OpenAI co-founder Greg Brockman. It can also serve as an alternative to coding bootcamps for early-career developers, which is how I used my time there.
- Learned full stack development through hands-on experience building a complete, end-to-end web app (see **Sphericle** below).
- Received code review from, and pair programmed with, experienced software engineers.

Sabbatical — *August 2022 – August 2023*
- Took time off to travel and program. Eat, pray, love.

Apollo Global Management — **New York, NY**
Legal Analyst — *July 2019 – August 2022*
- Apollo Global Management is a leading alternative asset manager known for its private equity business.
- Led day-to-day fund administration for several publicly-traded credit vehicles. Automated major parts of transaction workflow.

PROJECTS

Snoozeless — *May 2024 – August 2024*
- Snoozeless is a physical alarm clock that promotes morning exercise by continuing to sound until the user reaches a predefined geographic location.
- Leveraged Espressif's ESP-IDF framework to build an ESP32-based IoT node with remote firmware update capabilities.
- Created a companion mobile app using Flutter to track user location and synchronize state with a Supabase database.
- Implemented a Hono server to handle backend routing and logic.
- *Languages & Technologies:* C, C++, Dart, [ESP-IDF](ESP-IDF), Flutter, Hono, Supabase, TypeScript

Sphericle — *August 2023 – December 2023*
- Sphericle is a platform for building custom geography quizzes, enabling users to study off-the-beaten-path parts of the world.
- Integrated OpenStreetMap and Google Places APIs to include almost any location on Earth.
- *Languages & Technologies:* NextJS, React, Supabase, TailwindCSS, TypeScript

BetBot — *March 2023 – July 2023*
- BetBot is a tool that monitors popular sports betting websites for pricing mismatches.
- Captured pricing data at ~100 ms resolution, storing it in a self-hosted Supabase instance for later trend analysis.
- *Languages & Technologies:* Docker, NodeJS, Prisma, Puppeteer, Supabase, TypeScript

OPEN SOURCE CONTRIBUTIONS

Immich — *May 2024*
- Immich is an open source, self-hosted Google Photos alternative for managing personal photos and video.
- Resolved bug that caused server crashes when multiple asset IDs were sent to the API ([PR #9436](PR #9436)).
- Improved mobile user experience by fixing layout of upload screen ([PR #9601](PR #9601)).
- *Languages & Technologies:* Docker, NestJS, NodeJS, PostgreSQL, Svelte, TypeScript

EDUCATION

New York University — **New York, NY**
PAC Program, Courant Institute of Mathematical Sciences — *August 2020 – May 2021*

The College of William & Mary — **Williamsburg, VA**
Economics (B.A.), Government (B.A.) — *August 2014 – May 2018*