

Zachary Broad

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PROJECTS

- Internet Relay (IRC) Server** (github.com/zachbroad/jirc) — Java (July 2023 - Aug 2023)
- Implemented an IRC server **based on the RFC 1459 & RFC 2812** specification.
 - Designed and developed a **multi-threaded server architecture** to handle multiple client connections simultaneously.
 - Integrated **error handling and exception management** to ensure server resilience and stability.
 - Supported **core IRC features** such as channels, private messages, nicknames, and user modes.
- ECHO for Spotify** (echoyourmusic.com) — Python/Django + JavaScript/React (July 2023 - Sept 2023)
- Developed a **full-stack mobile & web app** for users to explore & share their Spotify listening history & habits with friends.
 - Built with **Django + Django REST Framework** as backend & **React** as a web frontend.
- FrenchieWiki** (frenchiewiki.com) — GatsbyJS → Wordpress (2018 - Present)
- Launched a blog for dog enthusiasts, originally using **GatsbyJS / React / SCSS** to gain SEO speed advantages.
 - Transitioned to Wordpress to focus on publishing and allow less tech-savvy individuals to contribute.
 - Site has reached 3.5 million users to-date & **generates over \$100,000 in revenue per year** through Amazon, Chewy, and various other partners.
 - Collaborated with various freelance writers to generate content.
- SEO Consulting / Website Redesign** (doubleblacktransportation.com) (July 2023 - Sept 2023)
- Designed 3 websites for a transportation company for each of their locations.
 - Optimized websites for fast performance, best SEO practices, and increased conversions.
 - Implemented Zapier automations to integrate signup forms with customer's CRM.
- Android/iOS Food Truck Finder App** (github.com/zachbroad/onthegrub) — Python + Dart/Flutter (July 2021)
- Developed a **full-stack mobile & web app** for food truck owners to manage their menu & display their live location to customers.
 - Built with **Django + Django REST Framework** as backend & **Flutter** as a frontend for Android/iOS.
 - Created a blog with **Hugo** static site generator.
- Web Scraper for CPU Stock Check** (github.com/zachbroad/instock) — Go (Dec 2020)
- Developed a **web scraper built with Go** to check multiple retailers for the stock of a specific CPU during chip shortage.
 - Optimized performance using **multithreading**.
 - Integrated **Twilio API** to send text notifications.
- Discord Bot for NFT Alerts** (github.com/zachbroad/nftdiscordbot) — Python (Oct 2021)
- Programmed a **Discord bot to send alerts** for Solana NFT sales.
 - Featured **multiple commands** built-in to get statistics on sales data.
 - Analyzed **data from multiple NFT marketplaces** and would send notifications to Discord channels with sale data.

SKILLS

Languages

Python, Java, JavaScript, C++, C, C#, HTML, CSS/SCSS, SQL, Dart, Go (familiar), PHP (familiar), Swift (familiar)

Web Development

Bootstrap, React (Redux, Native), GatsbyJS, Hugo (familiar), Express (familiar), ApostropheCMS (familiar)

Mobile Development

Flutter, React Native, SwiftUI (familiar)

Back-end

Django (+REST Framework), Node.js (familiar), Flask (familiar)

Database & Cloud Services

Heroku, Linode, DigitalOcean, Cloudflare, Netlify, Render, AWS (familiar), Firebase (familiar)

Data & Testing

REST API Design, GraphQL, JSON, XML, TDD, Google Analytics, Matplotlib (familiar), pandas (familiar)

Development Tools

git, Linux, vim, npm/yarn/bun, Google Tag Manager, Zapier