

# Zachary Broad

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## PROJECTS

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- Internet Relay (IRC) Server** ([github.com/zachbroad/jirc](https://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](https://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](https://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](https://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](https://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](https://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](https://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

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### 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, 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