

# Zachary Broad

Melbourne, FL | zachbroad@gmail.com | (772) 341-8776 | zachbroad.com | linkedin.com/in/zachbroad | github.com/zachbroad

## PROJECTS

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### Internet Relay (IRC) Server ([github.com/zachbroad/jirc](https://github.com/zachbroad/jirc)) — Java

- 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

- 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

- 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))

- Designed websites for a transportation company, creating unique sites for each of their three 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

- 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

- 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

- 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 (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