


# Zachary Thomas Broad

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## PROJECTS

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### Android/iOS Food Truck Finder App — Python + Dart/Flutter

(July 2021)

- Developed an 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.

### ECHO for Spotify — Python/Django + JavaScript/React

(July 2023 - Sept 2023)

- Developed a **full-stack application** for users to explore Spotify listening history & habits with friends.
- Built with **Django + Django REST Framework** as backend & **React** as a web frontend.

### Internet Relay (IRC) Server — Java

(July 2023 - Aug 2023)

- Implemented an IRC server **based on the RFC 1459 & RFC 2812** specification.
- Utilizes 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.

### Revenue Generating Website — GatsbyJS → Wordpress

(2018 - Present)

- Publisher with **Mediavine, the largest exclusive ad management company** in the U.S.
- Launched a website, originally using GatsbyJS / React / SCSS to gain SEO speed advantages.
- Site has **reached 3.5 million users** to-date & **generates over \$100,000 in revenue per year** through Mediavine, Amazon, Chewy, and various other partners.

### SEO Consulting / Website Redesign

(July 2023 - Sept 2023)

- Designed **websites for a transportation company**, creating unique sites for each of their 3 locations.
- Optimized websites for **fast performance**, best SEO practices, and increased conversions.
- Implemented **Zapier automations** to integrate signup forms with customer's CRM.

### Web Scraper for CPU Stock Check — Go

(Dec 2020)

- Developed a **web scraper built with Go** to check multiple retailers for the stock of a specific CPU.
- Optimized performance using **multithreading**.
- Integrated **Twilio API** to send text notifications.

### Discord Bot for NFT Alerts — 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, PHP, Swift

### Web & Mobile Development

React (Redux, Native), Vue, Bootstrap, GatsbyJS, Hugo, Flutter, React Native, SwiftUI

### Back-end

Django, Django REST Framework, Node.js, Flask

### Database & Cloud Services

Google Cloud Platform, AWS, Firebase, Heroku, Linode, DigitalOcean, Cloudflare, Netlify, Render

### Data & Testing

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

### Development Tools

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