Zachary Thomas Broad

Melbourne, FL, USA

github.com/zachbroad   linkedin.com/in/zachbroad   +1 (772) 341-8776   zachbroad@gmail.com

PROJECTS

Categories.LIVE [www.categories.live] — Vue.js + Express.js + Socket.IO + GPT-4   (November 2023)
- Developed a real-time multiplayer Scattergories-like game using Vue.js & Express.js.
- Utilized Socket.IO to manage live, bi-directional communication between web clients and servers.
- Integrated OpenAI's GPT-4 to generate creative prompts and validate user entries, enhancing the gameplay with AI-powered features.

ECHO for Spotify [www.echoyourmusic.com] — Python/Django + JavaScript/React   (July 2023 - Sept 2023)
- Developed a website for users to explore & visualize Spotify listening history & habits with friends.
- Built with Django + Django REST Framework as backend & React as a web frontend.

Revenue Generating Website [www.frenchiewiki.com] — Gatsby.JS → Wordpress   (2018 - Present)
- Publisher with Mediavine, the largest exclusive ad management company in the U.S.
- 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 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 — Python + Flutter   (July 2021)
- Developed an app for food truck owners to manage menus & display their live location to customers.
- Built with Django + Django REST Framework as backend & Flutter as a frontend for Android/iOS.

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.

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 NFT sales on the Solana blockchain.
- 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

Programming Languages
Python, Java, JavaScript, C++, C, C#, HTML, CSS/SCSS, SQL, Dart, Go, PHP, Swift
Web & Mobile Development
React, Vue, Bootstrap, Flutter, React Native, SwiftUI, GatsbyJS, Hugo, Redux
Backend Technologies
Django, Django REST Framework, Express.js, Socket.IO, WebSockets, 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