Sidney Bernardin

Backend Software Developer

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TECHNICAL SKILLS

- Programming Languages: Golang, JavaScript, Python, HTML, CSS
- Frameworks/Libraries: HTMX, Templ, Vue.js, express.js
- Tools: PostgreSQL, MySQL, Redis, MongoDB, NATs, Nginx, Docker, Git, GitHub, Google Cloud Platform, Linux

PROJECTS

Go Live Streaming Platform | github.com/Sidney-Bernardin/Go-Live

2023

Technologies: Golang, JavaScript, Vue.js, MongoDB, Redis, Nginx, Docker, Microservices, GRPC, HLS/TLS

- Designed an **HLS/TLS** based **live video streaming** pipeline using **Nginx** and an advanced **Vue.js** UI, resulting in a smooth and performant user experience.
- Applied hexagonal domain-driven design to Golang microservices, resulting in a scalable and clean code base.
- Crafted a distributed system using stateless microservices that communicate through GRPC and Pub/Sub protocols, resulting in a horizontally scalable infrastructure.
- Implemented chat rooms powered by Redis Pub/Sub, Golang concurrency, and WebSockets, allowing for real-time user interactivity.

Urithiru Load Balancer | github.com/Sidney-Bernardin/Urithiru

2025

Technologies: Golang, TCP, Docker

- Engineered a **layer-4 TCP** based **load-balancer** using **Golang's** powerful **concurrency** features to allow for multiple **reverse-proxies** to be configured using **TOML** files.
- Optimized memory usage by adjusting buffer sizes per connection with the help of a PPROF server for performance metrics, allowing for a 10x reduction in memory usage and more connections per proxy.
- Created multi-stage Dockerfiles that support multiple CPU architectures, allowing for an extremely portable and prediction-ready application.

NFL Discord Bot | github.com/Sidney-Bernardin/NFL-Discord-Bot

2023

Technologies: Python, Web Scraping, Docker

- Programmed a webhook based Discord bot that uses a custom web-scraping pipeline for nfl.com using Python,
 which retrieves specific stats per NFL player for each year of their career.
- Created end-to-end tests that run with GitHub Actions for the web-scraping pipeline using snapshots from nfl.com as test data, creating an efficient CI/CD pipeline.
- Implemented an advanced **logging system** and configured multi-target **Dockerfiles**, resulting in a robust and **production-ready** runtime.

CERTIFICATIONS

CODECADEMY - BACK-END ENGINEER CAREER PATH

August 7, 2025

Professional Certification: codecademy.com/profiles/Sidney123456/certificates/810f53d14de24b938cc13c7c2af1e686