Brian Jekel

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PROJECTS

REST API Project - Microblogging Web Server
Apr. 2025 – Present

Personal Project *Remote*

- Stack: Go, PostgreSQL, Goose, SQLC
- Implemented a RESTful API to reinforce backend design patterns. The API interacts with a PostgreSQL database. It exposes endpoints for creating a user complete with secure password encryption and authentication using JSON Web Tokens, posting content, and retrieving post(s).

Static Site Generator
Sept. 2024 – Mar. 2025

Personal Project *Remote*

- Stack: Python, HTML, CSS
- The program generates a static website from raw markdown files, similar in concept to Jekyll, Hugo, or Gatsby.
- Architecture/workflow: user adds markdown files to a static folder; user runs a build command from the terminal; the program generates the html files from the markdown files and an HTML template, locates the generated files in a public folder, and moves assets to the public folder. The program is configured to be compliant with Github Pages' default settings so that deployment via that route is simple. See example [here](#).

Responsive Static Website
Mar. 2023 – Dec. 2023

Client: Black Diamond Property Group *Remote*

- Stack: Typescript, React, Next.js, Vercel, turbopack
- Implemented custom component library (buttons, routing, menus, etc.) to learn front-end design intricacies.
- Developed the website's responsive layout using CSS (Grid, flexbox for achieving flexible and consistent grid-based designs across different screen sizes.

SKILLS & INTERESTS

Technologies

Proficient		Competent		Familiar	
Go	Python	React	Docker	Next.js	AWS - (S3, IAM)
TypeScript	Git	PostgreSQL	Cursor	Github Actions (CI/CD)	WCAG
Linux/Unix	HTML5, CSS3	C	SQLC	OpenAPI	Tailwind

Desired Growth Areas: Machine Learning, LLMs, NLP, AI Agents, MCP Servers, TPU Fundamentals

WORK EXPERIENCE

The Haskell Company
Apr. 2019 – Present

Mechanical Design Engineer *Remote*

- Haskell is a highly decorated design-build firm recognized for designing and constructing multi-million dollar facilities for well-known companies such as Anhauser Busch, Blue Origin, Ericsson, Frito Lay, Gulfstream, Nestle, Nike, PepsiCo, Procter and Gamble, QuikTrip, and Rolls Royce.
- Instead of listing HVAC jargon irrelevant to this position, I detail below how the structure of my current role will translate well to this one.

Construction Project Lifecycle	==	Software Product Lifecycle
Client Standards	==	Client Requirements
Fast-Paced Design Phase (Completing Drawing Issues)	==	Sprints Towards Deployments / Feature Releases
Internal, Peer, and Owner Reviews	==	Code Reviews
Request for Information (RFIs)	==	Issues and Pull Requests
Building Codes / Construction Specifications	==	Documentation / Manuals / Specifications

EDUCATION

The University of Arkansas
Aug. 2012 – May 2017

Double Major - B.S. Mechanical Engineering, B.A. Psychology *Fayetteville, AR*