Brian Jekel

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PROJECTS

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

Proficient		Competent		Familiar	
Technologies					
TypeScript	Python	SQL	Java	PostgreSQL	Redis
JavaScript	Go	React	C	Kubernetes	Prometheus
Git	HTML, CSS	REST APIs	Tailwind	Docker	FastAPI
Linux/Unix		Next.js		AWS Cloud Computing (S3, ECS, Lambda)	
Skills					
OOP, Functional Programming, Data Structures, Algorithms, Big O Notation, Unit Testing, Version Control		Memory Management (pointers, stack vs. heap, garbage collection), HTTP CRUD Pipeline, Concurrency and Parallelism		SQL query execution order, database design, load balancing, integration and regression testing, version control, code review, HTTP Protocol	
Interests: Family/Kids, Tennis, Cycling, Hiking, Home Automation, Tinkering, Movies/TV, Podcasts and Books					

WORK EXPERIENCE

The Haskell Company   **Apr. 2019 – Present**
Mechanical Design Engineer - EIT   *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.
- I am an end-user of UpCodes. I use it on a weekly basis from my initial code research and information gathering to specific code lookups for project-specific conditions. Most used features: Copilot, projects, and bookmarks.
- 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
Simply Communicate Complexity to Clients	==	Simply Communicate Complexity to Clients