

## **Bart's Projects:**

### **Grid Dynamics:**

The work done for Grid Dynamics was done for an enterprise scale client and is proprietary and therefore not able to be shown. The tech stack was React, Typescript, MaterialUI, MobX, and Sass for the UI, and NodeJS, Typescript, and restful APIs using the Loopback framework for the middleware.

### **My Birthday Tracker:**

This is a fullstack MERN application (MongoDB, Express, React and NodeJS). This is a vibe-coded application built using Google's AntiGravity IDE. This is a fullstack application with a React based UI, a cloud based Mongo DB database, and a backend server written in NodeJS. Users can enter names and birthdays using a modern interface and that data gets persisted and stored in a cloud database. The users can sort the list by name or by date. The backend server runs a daily cron job that looks for upcoming birthdays and automatically sends an email to notify a week ahead of time.

<https://birthdaytracker.bartdorityportfolio.online/>

### **LightBurst:**

This is a fun puzzle game. It was originally coded using Objective C and released on the Appstore for Apple's IOS devices. Then it was rebuilt with Flutter so that it could be easily migrated to Android and Web platforms. The game consists of a square grid of lights. When the game starts, a random sequence of squares is chosen, which determines the initial game display. When the user touches a square, it reverses the state of the surrounding lights above, below and next to that square. The goal of the puzzle is to switch off all the lights. The game has scoring, and settings that allow users to control the difficulty by selecting longer sequences, or larger grid sizes. They can also choose the color of the lights. Currently available on the Appstore, and online at <https://lightburst-app.online/>

### **MillionthBlock-Countdown.com:**

A fun and simple app that tracks the countdown of the Bitcoin block height. The current block height is in the 900,000 range, and the bitcoin network produces a new block roughly every ten minutes depending on the hash rate and difficulty adjustment mechanism of the network. Sometime in April of 2027, it will reach one million, which is a fun and interesting milestone. This app uses the mempool API to pull the latest block number and keeps itself in sync with the network by running a timer to update itself every sixty seconds.

<https://millionthblock-countdown.com>

### **Moon-math.org:**

A fullstack MERN application (MongoDB, Express, React and NodeJS). This is a self-publishing blog about math and bitcoin. Admin users can write and publish articles and upload images. All of the content is stored in a cloud based MongoDB database. It features a responsive layout and mobile-first design.

<https://moon-math.online/>

### **Google Bookshelf:**

UI-Focused fullstack MERN App. Responsive web app allowing users to search, save, and manage collections using the Google Books API. Built with React, TypeScript, Node.js, Express, and

MongoDB, featuring RESTful APIs, global state management.  
<https://googlebooks.bartdority.online/>

**Jerry Frost**- Custom Artist Portfolio. This full featured website was built with PHP, JavaScript, HTML5, and CSS3, and flat-file data storage. It features a modern, mobile-first, responsive layout with an image catalog and custom admin dashboard for uploading images and details about the artwork, as well as categorizing it, and sorting it.

<https://jerryfrost.com/>

**Amy Graham** – This is a simple brochure-style artist portfolio website, with a clean, modern and minimal design built with vanilla Javascript, and custom CSS. It also features a PHP driven, SMTP-based contact form, with human verification.

<https://amygraham.art/>

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**Willow Kelly:**

Lightweight brochure-style website built with PHP, vanilla javascript, and custom CSS. Features a responsive layout and SMTP-based contact form

<https://willowkelly.com>

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**DorityDesignWorks-**

This is a portfolio website built with vanilla Javascript and PHP. It showcases the various client projects I have worked on including graphic design, applications, custom websites, and websites built with custom built templates on Wordpress.

<https://doritydesignworks.org>