JAKE PRESTON
SOFTWARE ENGINEER

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ABOUT ME

From engineering to full-stack software development, I have carried a passion for technology throughout my life. With my brother's encouragement and example as a Senior Developer, I found a way to combine creativity with logic; and decided to dive into the industry myself. Working in an industry with endless learning opportunities, I hope to contribute to the innovative world of development.

INDIVIDUAL PROJECTS

Urban Shire

UrbanShire was created as a single page application for mobile devices utilizing the React Library with CSS and ReactStrap for styling. The purpose was to provide Nashvillians the ability to monitor and minimize their CO_2 emissions. After registration, users are authenticated with Firebase. From there a CO_2 profile is generated from resource prompts including car, home, and waste emissions.

Features:
- Users can create a CO_2 profile from resource prompts including car, home, and waste emissions
- Users are given a total yearly emissions based on their profile
- Action plans are available for users to reduce their carbon footprint
- Action plans include meatless Mondays. energy efficient home goods, and improving vehicle MPG

○ https://github.com/Preston-Jake/Urban-Shire

Waiterly

An MVC ASP.NET Core web application utilizing Entity and Identity Framework - Bootstrap and CSS for styling. The purpose of the application was to provide a resource for restaurants to manage employee operations. Additionally, allowing user access and functionality for appropriate roles.

Features:
- Identity Authorization and Roles (Administrator, Manager, Host, and Waiter)
- Employee Management
- Waiter Placement
- Payroll

○ https://github.com/Preston-Jake/Waiterly

ACADEMIC BACKGROUND

Nashville Software School - 2019
Full Stack Web Development Bootcamp

The University of Tennessee at Chattanooga -2015
Electrical and Electronics Engineering

PROFESSIONAL EXPERIENCE

Nashville Software School
Intensive full-time 6-month software development bootcamp anchoring learning with both individual and team-based projects.
- Created browser-based applications with HTML, Javascript, and styled with CSS and various styling libraries
- GitHub used for project management, source code version control, and collaboration
- Source code written and edited in Visual Studio Code and Visual Studio
- Automated and bundled tasks using Grunt and Browserify, and minimized errors with ESLint
- Used React and JSON while honing front-end skills and building a successful capstone project
- Worked with team members to build a virtual marketplace using C# and Azure Data Studio MySQL
- Built Web APIs and MVCs individually and in group settings

TECH STACK | GROUP PROJECTS

React
- Group project creating, Nutshell, a social media application using the React Library. Used Firebase to verify Users information and Session Storage for multiple users access. Individual responsibility included the newsfeed (events & news) implementing full CRUD and posting messages

Javascript, JSON Server, Grunt
- Created two projects with a group using the Grunt task manager and Modular JS compiled with Browserify
- Nashville itinerary application that pinged four different API's for a user to create an itinerary from their displayed data, and then storing the user's input data to a local JSON Server. Individual responsibility included displaying and adding parks to a users itinerary
- Nutshell is a social media application for users to share messages, events, and news with friends. This application implemented Session Storage for multiple user access reinforced JSON naming conventions and handling multiple users data. Individual responsibility inclduded acting as the team lead -- setting up the initial files, GitHub repository, user registration, and messages

HTML5 & CSS3
- Created a tribute page to Carlos Santana using HTML5 and CSS3 focusing on HTML semantics and CSS Flexbox

C#
- Inherited the code base Trestlebridge Farms - A console application written in C#. The focus was to refactor with additional features comprising of interfaces, classes, and the implementation of LINQ methods

C# & .NET
- Bangazon Inc. and Bangazon WorkForce were two group projects that applied Azure Data Studio (MySQL), C#, and .NET to build out a Web API and MVC
- Bangazon Inc. focused on using models and controllers to handle GET, POST, PUT, and DELETE operation that were verified through test database and created an MVC

MongoDB, Meteor.js
- Strabo, an itinerary application project using Meteor.js, MongoDB, and React v16, - wire-framed using Figma. The purpose was to focus on mobile UI using React Hooks and MangoDB as the back-end language

WORK HISTORY

Freelance Infographic Designer - Tennessee Trade Association
October 2018 - January 2019
- Utilized graphics to enhance patterns and trends regarding legislation
- Applied statistics and data analysis methods within the field of law

Fitness Instructor - Climb Nashville
February 2017 - August 2018
- Instructed and mentored indoor climbing, belaying, and safety procedures to customers of all ages
- Reviewed gym operations and ensured space was kept clean
- Provided customer service and proactively sold equipment, memberships, and gear