

# MICHAEL BOULTON

Full Stack Web Developer

## CONTACT

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## SKILLS

Self Taught  
Website Design  
Website Deployment on Linux  
Continuous Integration  
Continuous Deployment  
Functional Programming  
Git Source Control  
Debugging & Troubleshooting

## LANGUAGES

**HTML 5:** HyperText MarkupLanguage  
**CSS:** Cascading Style Sheets  
**SASS:** Syntactically AwesomeStyle  
Sheets  
Javascript EcmaScript 2015+  
Webpack  
React.JS Library  
Node.JS  
Express.JS  
MongoDB (mongoose)  
Node Package Manager  
Node Mailer  
NGINX  
Certbot  
PM2 Process Manager

## SOFTWARE

Visual Studio Code  
Postman  
Putty

## ABOUT ME

From a young age, I have always tried to decipher how small electronics work by pulling them apart and rebuilding them, this left me curious to understand the inner workings of microchips. It harbored a passion for computers and software, leading me to the world of coding. Having acquired front and backend knowledge through my own efforts, without formal training, I developed a full-stack website while maintaining a high standard of quality work. I have never considered programming to be just a job but an enjoyable challenge while building skills and compelling me to expand my understanding of software.

## EXPERIENCE

### AMD Product Display Website — *Html, Sass, Javascript*

<https://www.amd.mboulton.com>

This website is based on a single index.html page and dynamically loads all content for each product through REST-api calls to a Nodejs server. The data received to the client arrives as JSON Data, then is recursively crawled and parsed as valid HTML code, and finally inserted into the DOM. Navigation data is stored locally on the client device but checks its version against the database every time it is loaded to ensure it doesn't become outdated.

### AMD Api Node Server — *NodeJS, ExpressJS, MongoDB*

<https://www.api.mboulton.com/amd/>

In order to serve the api request to the AMD website, this NodeJS server utilizes ExpressJS routing to handle all requests and retrieves relevant data from a MongoDB.com collection using the Mongoose package. This server maintains version control of the data to ensure all requests will be up to date.

### Portfolio Website — *Html, Sass, Javascript, Webpack*

<https://www.mboulton.com>

Displays my projects and shows all the code behind them, then requests current file data from the server and displays it in the "My Work" page inside a viewing panel. The contact form is fully functional and triggered by event listeners that post data to the server and render its response in the DOM.

### Portfolio Api Node Server — *NodeJS, ExpressJS, MongoDB*

<https://www.api.mboulton.com/portfolio/>

Handles all contact forms to be stored on the MongoDB.com collections database, then sends out all relevant forms to be emailed with the Nodemailer package. Node File System searches the project folders and serves a copy of the current code for each project to the portfolio website. Node-cron was implemented to update the current projects to the database on a daily schedule.