

Joshua Sparks

Junior Software Engineer

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A Full Stack Engineer with a background in the automotive industry. I loved my work as an Automotive Technician, but it was very hard on my body. Software Engineering seemed to be a perfect fit to employ my creative problem solving skills. I'm known as the guy everyone runs toward to solve their car problems, and as someone with a mind for diagnosing and innovative problem solving.

SKILLS

Languages - JavaScript, HTML, CSS, Python, Mongoose, EJS, SQL | **Database** - MongoDB, Postgresql

Libraries and Frameworks - ReactJS, Express, Bootstrap, Django, Node.js

Other - REST API, JSON API, OOP, Git, Github, NoSQL

SOFTWARE DEVELOPMENT PROJECTS

[Celebrity Cars](#) | A web app containing famous celebrities and a list of their cars

October 2022

- Created and designed a full stack application using Python and Django
- Utilized Python/HTML for core app functionality to dynamically render front-end elements
- Styled user interface with CSS3 with flexbox and Grid layouts
- Created database using SQL and Postgres and used Python/Django to create models and views

[Metal Band Generator](#) | A website that generates random metal band information and album artwork

September 2022

- Created and designed a full stack application with clean code using Mongoose, Express, React, Node (MERN)
- Created an API using MongoDB and Express in order make more custom fetch calls
- Fetched data from a third party web API in order to populate React components
- Employed troubleshooting and debugging methods to solve issues

[TubeYou](#) | A YouTube like website for uploading, editing, commenting on videos

August 2022

- Utilized a MEN stack (MongoDB, Express, Node.js) to build a full stack application in 5 days. With full create, read, update, delete (CRUD) operations hitting all RESTful API calls
- Made restful API fetch calls to an Express, MongoDB, Node.js back-end handling all CRUD operations, and tested all backend routes during development using Postman.
- Used Mongoose for programming backend schemas for MongoDB collections
- Took on leadership role and developed in a collaborative effort using agile methodology, with 2 other engineers, using Heroku for deployment

PROFESSIONAL EXPERIENCE

BNZ Automotive, Technician Apprentice | Sunbury, Ohio

January 2019 - April 2020

- Performed complex diagnoses and repairs on a range of models from Mercedes in a small, fast-paced, fast growing shop
- Inspected each vehicle for damage, wear, dysfunctionality and come up with solutions, ensuring performance
- Organized and implemented timely communication protocol throughout organization by serving as primary point of contact between upper management and staff which led to significant improvement and increase in productivity and efficiency with all vehicle inspection, status, testing, and more complex and technical diagnoses, allowing for growth and integration of a new business model

EDUCATION

GENERAL ASSEMBLY | REMOTE

Software Engineering Immersive

July 2022 - October 2022

Full-stack software engineering immersive student in an intensive, twelve-week, 450+ hour program focused on product development fundamentals, object oriented programming, MVC frameworks, data modeling, best practices, writing clean code, and team collaboration strategies. Developed a portfolio of individual and group projects.

COLUMBUS STATE COMMUNITY COLLEGE | COLUMBUS, OHIO

Automotive Technology

September 2011 - April 2012