James Shockley
Software & Data Engineer

SUMMARY

Creative, detail-oriented, software engineer with a deep respect for the value of data. Proven track record of managing, supporting, and developing data and systems architectures for over $1 billion combined investment in manufacturing ramp-ups. Looking to bring my skills to a data-driven organization.

WORK EXPERIENCE

Software & Data Engineer (Connectivity Architect) at BOSCH, Anderson SC

November 2019 — Present

- Designed the data & system architecture for the $600 million investment in North American Hydrogen Fuel Cell production in Anderson, SC.

- Designed, developed & operated event-driven data pipelines to enable AI-powered self-adjusting machines, optimizing to the current production environment

- Developed, automated, and maintained the AI model training & release pipeline for Automated Optical Inspection processes

- Democratized data availability to drive insights for engineering & operations by parsing and consolidating unstructured data into a data warehouse

- Developed and maintained full-stack web applications and REST API's for data collection via manual or bespoke processes

- Led the rollout & adoption of the enterprise data catalog metadata store for BOSCH Anderson, empowering users ability to speak with, and understand, their data

Full-Stack Software Engineer, Freelance, Greenville SC

January 2022 — Present

- Work in tandem with clients to develop web sites from start to finish that embody their brand and enhance their business

- Focused on creating responsive, accessible, and easy-to-read sites in a timely manner for customers

- Managed multiple projects and deadlines while maintaining client contact, weekly updates, and maintenance

IT Shopfloor Specialist & IT Engineering Intern at Mercedes-Benz, Charleston SC

Apr 2017 — Oct 2019

- Supported the system architecture landscape for the $500 million ramp-up to part-by-part sprinter production for North America, ensuring changes met business needs

- Supported the rollout of the new Daimler manufacturing execution system, succeeding a 30-year-old standard monolith, in the Charleston body shop.

Recent Projects:

MovieSquad.net (Fullstack Web App- React, Node.js, Express.js, MongoDB)

Facilitating film conventions, watch parties, and movie nights at any scale. MovieSquad allows users to share watchlists between multiple other users across platforms and streaming services.

CONTACT

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@Shockley_JE

SKILLS

HTML

CSS

Javascript

React

Node

Python

Flask

SQL + ORM

MongoDB

PostgreSQL

SQL Server

Oracle

Kafka

OOP

EDUCATION

College of Charleston

2012 - 2016

Major: Computer Science

EXTRAS

CodeForGreenville.org

2022 - (current)

Individual contributor