

# James Shoemake

## Software Engineer

Professional software engineer and data analyst with over 10 years of experience developing Full Stack Web applications focused on user-friendly design leveraging machine learning, modern web tools, open-source software, and languages including HTML/CSS/JavaScript, React, Jest, Python, Elasticsearch, SQL, and NoSQL databases.

**Current Project Portfolio & Digital Resume:** [jamesshoemake.github.io/digital\\_resume/](https://jamesshoemake.github.io/digital_resume/)

✉ [James.shoemake1@gmail.com](mailto:James.shoemake1@gmail.com) ☎ 601.862.3380 📁 Petal, MS 🌐 [Github.com/jamesshoemake](https://github.com/jamesshoemake)

## Skills

HTML/CSS	NodeJS	Puppeteer	MySQL/MS SQL	Git/Jira	PyTorch
JavaScript	ReactJS	ColdFusion	PostgreSQL	Google Analytics	Linux
TypeScript	Jest	Elasticsearch	Redis/NoSQL	Python	Vite

## Work History & Accomplishments

### Full Stack Web Developer | Lead Search Developer

Howard Technology

Ellisville, MS

May 2013 – Present

- April 2024, Launched Elasticsearch based product search for Howard-Lighting.com with other Howard family sites planned for July 2024. The new Search application increased max request per min from 120 to 12,000 while improving UI/UX and search relevance.
- Early 2023, Started research and development of new Ecommerce Search solution. Built Several Proof of Concepts using OpenSearch, Elasticsearch, and Redis. Recommended a solution based on Elastic Search and began leading a team to implement a solution utilizing: Node, React, and REST APIs.
- Sept 2022, established first Jest based JavaScript testing for Howard websites; composed styling guide for Howard JavaScript programming, initiated first yearly training requirements for Howard Developers.
- June 2017, developed a new search and predictive search features for the Howard website relaunches; utilized ColdFusion, JavaScript, and LucidWorks' Fusion, resulting increasing search conversions by 85% and improved search and webserver performance by 94%.
- 2017-2018, Search team lead and contributor during website redesign, designed UIs for customer account management and other layouts, Implemented Google Analytics filters and dashboards.
- Oct 2016, Created Howard medical customer opportunity signup system leading to over 100 new customers and over \$1 million in medical equipment sales.

### Data Analyst | Full Stack Applications Developer

Essential Knowledge Systems

Petal, MS

August 2019 – June 2022

- April-June 2022, Designed and Implemented React application for managing educational courses.
- 2020, Developed React Open-Source Routing Machine application for OpenStreetMap based directions for drivers delivering products around the Hattiesburg and Petal, MS areas.
- 2021, Ported a PyTorch Machine learning model, mTAN, into PyTorch-Lightning allowing the Single-GPU model to run on multi-GPU and multi-node hardware configurations.
- Co-Authorred 2 Machine learning papers: based on Parallel computing via PyTorch-Lightning and another comparing Transfer learning models.

Full Stack Developer

Boot Country

Hattiesburg, MS

2012 - 2013

Corporal of Marines

US Marine Corp

Yuma, AZ

2005 - 2009

## Education

**Master of Business Administration** University of Southern Mississippi, Hattiesburg, MS 2018 - 2019

**Applied Technology, BS Minor Computer Science** USM, Hattiesburg, MS 2016 - 2018

**Computer Information Systems Technology, AAS** Jones College, Ellisville, MS 2010 – 2012