

# James Shoemake

## Software Engineer

Highly skilled Software Engineer with over a decade of experience in full stack web development, specializing in user-centric design and advanced technologies. Proficient in HTML, CSS, JavaScript, React, TypeScript, Python, and AI-driven solutions, including LLMs like Llama and Gemma. Expert in Elasticsearch, SQL/NoSQL databases, and modern frameworks, delivering scalable, high-performance applications. Proven track record in leading innovative projects, enhancing search functionality, and driving business growth through optimized UI/UX and machine learning integrations. Adept at leveraging tools like Jest, Vite, and PyTorch to build robust, efficient systems, with a strong foundation in agile methodologies and team leadership.

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

## Skills

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

## Work History

**Full Stack Web Developer | Lead Search Developer | AI Engineer**

*Howard Technology*

Ellisville, MS

May 2013 – Present

- June 2025, began work on AI Software Applications for internal use. Projects include LLM models Llama and Gemma for several tools for business functions.
- Jan 2025, based on feedback gained from Howard-Lighting.com search, Launched Elasticsearch solution on HowardComputers.com for internal users.
- April 2024, Launched Elasticsearch based product search for Howard-Lighting.com increasing max requests per min from 120 to 12,000 while improving UI/UX and search relevance.
- Early 2023, researched new Ecommerce Search solution. Built Proof of Concepts using OpenSearch, Elasticsearch, and Redis. Recommended a solution based on Elasticsearch.
- Sept 2022, established company first Jest based JavaScript testing; 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.

## 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**