

# James Shoemake

# Software Engineer

Professional software engineer and data analyst with experience building full-stack applications and AI-driven solutions focused on user-friendly design. Skilled in leveraging machine learning, modern web technologies, and data tools to deliver intuitive, high-impact products that solve real-world problems.

✉ James.shoemake1@gmail.com ☎ 601-862-3380 🏫 Petal, MS 🐾 [Github.com/jamesshoemake](https://github.com/jamesshoemake)

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

## Skills & Technologies

**Frontend:** HTML/CSS, JavaScript (ES6+), TypeScript, React.js, Tailwind

**Backend & Languages:** Node.js, Python, ColdFusion, C++

**Databases & Search:** MySQL, PostgreSQL, Microsoft SQL Server, Elasticsearch, Redis

**DevOps & Tools:** Git, Jira, Puppeteer, Jest, Google Analytics, Vite

**Machine Learning & AI:** PyTorch, Open WebUI, Ollama, TensorRT LLM, Hugging Face Libraries

## Work History & Accomplishments

Senior Software Engineer (Search & AI)

*Howard Technology*

## Ellisville, MS

May 2013 – Present

- Led R&D for AI-powered tools and applications using open-source models and on-premises hardware, streamlining daily sales operations (June 2025 – Present).
  - Launched Elasticsearch-powered internal search on HowardComputers.com, driven by Howard-Lighting.com user feedback, for scalable internal querying (Jan 2025).
  - Deployed Elasticsearch product search on Howard-Lighting.com, scaling requests per minute from 120 to 12,000 while enhancing UI/UX and relevance (April 2024).
  - Evaluated next-gen e-commerce search solutions; built PoCs with OpenSearch, Elasticsearch, and Redis; recommended and implemented Elasticsearch as the optimal platform (Early 2023).
  - Established company-wide Jest testing framework, authored JS styling guide, and launched annual developer training; led search efforts during website redesign, designing UIs and implementing Google Analytics dashboards (2018–2022).
  - Developed predictive search features (ColdFusion, JavaScript, LucidWorks Fusion) increasing conversions 85% and performance 94%; built medical customer signup system generating 100+ new customers and >\$1M in sales (2016–2017).

Data Analyst | Full Stack Applications Developer

*Essential Knowledge Systems*

Petal, MS

August 2019 – June 2022

- Ported the mTAN multi-task attention network (from CVPR 2019 paper) to PyTorch Lightning framework, enabling seamless single-GPU to multi-GPU and multi-node distributed training for scalable deep learning experiments (2021).
  - Developed React applications including open-source Routing Machine (OpenStreetMap directions for local drivers) and educational course management system (course creation/enrollment/tracking) (2020–2022).

# **Full Stack Developer**

## **Corporal of Marines**

*Boot Country*  
US Marine Corp

Hattiesburg, MS  
Yuma, AZ

Education

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**Master of Business Administration** University of Southern Mississippi, Hattiesburg, MS

**Applied Technology, BS Minor Computer Science** USM, Hattiesburg, MS