

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: jamesshoemake.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)

<i>Howard Technology</i>	Ellisville, MS	May 2013 – Present
<ul style="list-style-type: none">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

<i>Essential Knowledge Systems</i>	Petal, MS	August 2019 – June 2022
<ul style="list-style-type: none">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	<i>Boot Country</i>	<i>Hattiesburg, MS</i>
Corporal of Marines	<i>US Marine Corp</i>	<i>Yuma, AZ</i>

Education

Master of Business Administration University of Southern Mississippi, Hattiesburg, MS
Applied Technology, BS Minor Computer Science USM, Hattiesburg, MS