Brady Spears

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EDUCATION

Miami University | Oxford, OH Graduated May. 2025
- Bachelor of Arts in Computer Science | Co Major in Entrepreneurship
- GPA: 3.67

EXPERIENCE

Software Engineer June. 2025 – Present
SRC Inc. | Dayton, OH

Software Engineer Intern May. 2024 - Aug. 2024
SRC Inc. | Dayton, OH
- Developed a React application utilizing React, Vite, and TypeScript to enhance user interface and performance.
- Implemented Redux.js to manage the state of the React application and create websocket connections with a backend server.
- Engineered Python server with Quart library to establish WebSocket communication with React application.
- Integrated Langgraph and Langchain to facilitate interaction with a large language model (LLM).
- Designed Python tool functions and incorporated them into Langgraph, enabling LLM to execute and utilize tools effectively.
- Applied prompt engineering techniques to extract high-quality responses from the LLM.
- Utilized Plotly with React and Python to visualize points on a map, enhancing data representation and user insight.

Controls Engineer Intern May. 2023 - Aug. 2023
Navistar Inc. | Springfield, OH
- Implemented an automated way to reboot PCs and start applications on startup through VB configuration files, Windows Batch, and Windows Task Scheduler.
- Established a test server and database for managing content displayed on monitors supporting digital signage over the network. New innovative solution to display information throughout the plant while simultaneously saving money by eliminating up to 30 redundant PCs.
- Crafted an interactive Visio diagram showing how all devices and systems in a specific department interact with each other.
- Utilized Navistar's Tortoise repository to push files. Promoted version control and acted as a location where others can reference past work.
- Eliminated up to 100 inconsistencies for columns in database tables by executing SQL functions to clean up strings. Trimmed the number of unique values within different fields.

PROJECTS

Portfolio Website Jan. 2025 – Feb. 2025
Front End Web Development | https://bradyspearsportfolio.web.app
- Developed a modern portfolio website using React, Vite, and TypeScript, ensuring a fast and efficient development environment.
- Integrated Redux.js for state management, enhancing performance and maintainability.
- Implemented Three.js to create interactive 3D elements, adding dynamic visual appeal.
- Styled the UI with Material-UI, ensuring a sleek and responsive design.
- Configured EmailJS for seamless contact form functionality, enabling direct communication.
- Deployed the website on Google Firebase, ensuring scalability and reliable hosting.
- Utilized GitHub for version control, managing development iterations and collaboration effectively.

SKILLS

Java | Python | C++ | JavaScript | TypeScript | C# | Large Language Models | HTML | CSS | Flask | Quart | Django | Node.js | Plotly.js
React.js | Redux.js | Email.js | Three.js | Windows Batch | SQL | VS Code | Visual Studio | Bootstrap | Multithreading | Node Red
Eclipse | Linux | JIRA | BitBucket | Tortoise | GitHub | GitLab | Microsoft Office | Power BI | PuTTy | WinSCP
Windows Task Scheduler | AJAX | jQuery | .NET MAUI | JUnit Testing | Agile | Scrum | Google Firebase | REST API | Leadership
Project Management | Communication