Jaedon Spurlock

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EDUCATION

California State University, San Marcos   **Expected Graduation May 2026**
Bachelor of Science in Software Engineering   GPA: 4.00/4.00

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Software Design & Development
- Assembly & Digital Circuits
- Embedded Systems
- Database Management Systems
- Calculus with Applications II

SKILLS

- **Programming:** JavaScript | Python | C/C++ | Java | CSS | HTML | React | Node | SQL | MongoDB | Express
- **Technologies:** GitHub | Git | Postman | Windows | Linux
- **Software Knowledge:** Full-Stack | CI/CD Infrastructure | Cloud Deployment | Docker | Microsoft Office | Agile
- **Hardware Knowledge:** ARM | MIPS | Arduino | Cortex-M | Mbed Platform

PROJECTS

Routify | Dec 2023 – Jan 2024
- Simulated city pathfinding by developing an interactive website with React, NextJS, HTML, and CSS
- Queried city names efficiently by utilizing the Nominatim API
- Achieved a 95% accuracy rate in data acquisition by leveraging the Overpass API
- Reduced API calls by 80% by serializing location data with Protobuf and caching it with MongoDB
- Rendered real-time cities with ThreeJS

WebWizzard | Dec 2023 – Jan 2024
- Provided AI chat prompting on websites by building the client-side of web extension with React, HTML, and CSS
- Implemented Google's Generative AI for AI conversations
- Gathered relevant data efficiently by web scraping with the DOM API

AppMaster | Jun 2023 – Jul 2023
- Saved external applications into central hub by creating desktop application with Python and Tkinter
- Tested multi-threading capabilities by implementing AI features in board games like Sudoku and Tic-Tac-Toe, ensuring robust peformance and playability
- Streamlined development workflow by centralizing various applications, improving the accessibility and overall efficiency across multiple applications

WORK EXPERIENCE

CodeDay
Project Contributor | Oct 2023 – Nov 2023
- Accomplished enhancement of accuracy and reliability of an open-source project by implementing a test case with JavaScript and Mocha to verify conversions from kWh to BTU energy units, resulting in increased confidence in data integrity (pull request)
- Achieved seamless integration of new changes and utilization of Docker for testing and cloud deployment by leading the design and development of production-ready code

Computing Talent Initiative
Scholar/Alum | Jun 2023 – Dec 2023
- Improved technical knowledge of data structures, searching algorithms, sorting algorithms, and problem-solving techniques by working over 100 hours on online modules and mock interviews
- Learned crucial communication and networking skills through workshops and interview practice sessions
- Collaborated with a community of passionate, motivated students that aided each other for their success