Jaedon Spurlock

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EDUCATION

California State University, San Marcos   **Expected Graduation May 2026**
Bachelor of Science in Software Engineering | GPA: 3.98
- **Relevant Courses:** Data Structures, Discrete Mathematics, Statistics, Assembly Language & Digital Circuits, Embedded Systems, Database Management Systems, Intro to Software Engineering, Programming Languages
- **Campus Involvement:** Google Developer Student Club

Computing Talent Initiative Acceleration Program   **June 2023 – Present**
- Work over 100 hours on multiple online modules, including python lessons on topics like data structures, bit manipulation, hashing, search algorithms, dynamic programming, pointers, recursion, and sorting algorithms
- Collaborate and work along with a community of passionate, motivated students and mentors that help and aid each other for their success

TECHNICAL SKILLS & AWARDS

Programming Languages: C++, Python, JavaScript
Software and Tools: Windows, Linux, Git, GitHub, VSCode, PyCharm
Skills: Node.js, npm, CSS, HTML, TailwindCSS, React.js, Next.js, Convex
Awards: Marine Corps Scholarship Foundation, Dean's Honors List

PROJECTS

Notion Clone   **November 2023 – Present**
- Develop full-stack note taking app based on the workspace Notion using **Next.js**, **React**, and **TailwindCSS**
- Incorporate real-time database and user authentication using **Convex** and **Clerk**

Shortest Route Finder   **November 2023**
- Constructed Dijkstra's algorithm in **C++** to find the shortest route between two cities
- Worked with a weighted directed graph that represents cities and weighted routes

Project Portfolio Website   **October 2023**
- Created website with **React** and **Next.js** to showcase my projects and skills
- Written in **Typescript** with **TailwindCSS** and Framer Motion libraries

AppMaster   **June 2023 – August 2023**
- Developed full-stack app center in **python**, offering apps such as board games and a pathfinding visualizer
- Utilized a self-taught system manager for proper component communication and management, optimizing the app's performance and quality testing, in addition to incorporating database management with Firebase

Coupon Frenzy   **March 2023**
- Implemented an online store in **C++** to simulate purchasing store products, adding items to shopping cart, public customer access, and private administration access inside a UNIX console
- Constructed the use of coupons via membership inheritance to apply discounts to purchases
- Used tree data structure to organize user interface elements

EXPERIENCE

SWE Micro-Internship | CodeDay   **October 2023 – November 2023**
Project Contributor
- Contributed to the enhancement of the Open Energy Dashboard, an open-source project with 10K+ users that provides a web-based application to display energy information in a web browser
- Engaged with **Docker**, **PostgreSQL**, **JavaScript**, and **React** technologies to address critical issues and advance the functionality of the energy information platform
- Implemented a test with **JavaScript** and **Mocha**, improving the confidence of the project's behavior as measured by multiple test cases through continuous integration (pull request)