

David Tyler Jackson

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Portfolio: Jyler.dev

Objective:

Detail-oriented computer science student seeking a role to apply technical and analytical skills toward **building efficient, reliable software systems**.

Education:

University of Central Florida, Orlando, FL

Aug 2023 – May 2026

B.S. in *Computer Science* – **3.6 GPA**

Minors: Mathematics, Physics

Relevant Experience:

Growing Martin Minds – *Part-Time* – **Lead Technical Intern**

Jan 2025 – Current

- Architecting an **automated** Google Sheets **backend system** for payroll, invoicing, and tutor log tracking.
- Developing **Google Apps Script automations** to create reports, handle invoices, and process documentation.
- Designing **scalable data pipelines and validation logic** to ensure accuracy and reduce manual entry.

VITALS - Lockheed Martin - Student Researcher

Aug 2025 - Current

- Contributing to a **Lockheed Martin-partnered** capstone on real-time data processing and agentic inference.
- Developing a system architecture for **multi-agent coordination using MCP/ACP** communication protocols.
- Spearheading the real-time **Pathing and Mapping engine** used as the backbone for the data processing.

Kestrel - Blue Origin - Student Researcher

June 2024 - Aug 2025

- **Led a 20-member team** to develop an autonomous drone system from concept to implementation, translating early project research into an actionable design for the drone.
- Secured **Blue Origin** sponsorship, obtaining funding and mentorship to properly launch the project forward.
- Established documentation and system workflows for team coordination and subteam communication.

Element Construction Services of Orlando – *Part-Time* – **General Office Specialist**

Aug 2020 – Jan 2025

- Manage digital documentation, invoices, and purchase records using **Buildertrend, Dropbox, and Google Workspace**.
- Perform material takeoffs and **provide vendors** and contractors with accurate **supporting documentation**.
- **Coordinate with vendors** and contractors to obtain pricing and **pre-construction estimates**.
- Track and manage project pricing in **Google Sheets**, utilizing formulas to **forecast costs** and **maintain budget accuracy**.

Projects:

Portfolio Website

Feb 2026 - Current

- Designing and developing a full-stack portfolio website using Next.js, featuring a dynamic project and experience timeline backed by structured APIs and a MongoDB database. Implemented scalable content management workflows and optimized the UI for clean presentation, interactivity, and rapid extensibility.

Valentine's 2026 Website

Feb 2026

- Developed and deployed a Next.js application to create an interactive Valentine's experience, featuring a lightweight UI built with Shad/cn and dynamic image rendering from a Google Drive folder. Completed the full build and deployment on Vercel within a two-day sprint.

News Aggregation Website

July 2025 - June 2025

- Developed **NewsMap.today**, a MERN stack web application that aggregates and visualizes current events through a structured, map-based interface. Focused on transforming real-time news data into an intuitive, interactive experience for efficient exploration and contextual understanding.

Echo Interview - Geminknights Hackathon

July 2025

- Built a Next.js application that generates personalized mock interview sessions using the Gemini API, dynamically tailoring questions based on user-provided data and prior responses. Implemented JWT-based authentication to persist user sessions and enable a continuous, adaptive interview experience.

Capital Health - Shellhacks Hackathon

Sep 2024

- Developed a generative adversarial network (GAN) to forecast users' financial trends and provide data-driven insights for personalized financial support as part of Capital One's sponsor challenge at Shellhacks.

Technical Skills:

- **Programming & Frameworks:** JavaScript, Python, Java, Next.js, Node.js
- **Data & Automation:** Google Apps Script, REST APIs, JSON, data validation, workflow automation
- **Databases & Tools:** MongoDB, SQL (basic), Google Sheets, Microsoft Excel
- **Cloud & Deployment:** Vercel, Google Drive API, cloud-based file management systems
- **Systems & Architecture:** Backend system design, API development, scalable data pipelines, multi-agent systems (MCP/ACP)
- **Collaboration & Tools:** Git, GitHub, Buildertrend, Google Workspace (Docs, Sheets, Drive), Microsoft Office (Excel, Outlook)

Volunteer Work:

- Delivered an introductory AI presentation to a 3rd-grade class, an introduction to modern-day algorithms.
- Led weekly Foundation Exam (F.E.A.S.T) review sessions for 30+ UCF Computer Science students, teaching C programming, data structures, and core algorithms.