

Tristan Cravello

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SUMMARY

Full-stack developer with a background in education, experienced in building user-focused applications using **JavaScript, React, Node.js, Express, and MongoDB**. Brings strong communication skills, a systems-thinking mindset, and a proven ability to translate complex requirements into clear, usable solutions. Passionate about building scalable, user-centered technology that improves workflow and makes a meaningful impact. Known for strong problem-solving skills, collaboration, and a disciplined, growth-oriented work ethic.

SKILLS

Languages: JavaScript, HTML, CSS, SQL, TypeScript

Frameworks & Libraries: React, Node.js, Express, Next.js, Tailwind CSS, jQuery, PDFKit, Redux.js, Jest

Tools & Technologies: Git, GitHub, Command Line, Postman API, PostgreSQL, MySQL, MongoDB, API Integration

Concepts: OOP, MVC Architecture, REST APIs, Testing & Debugging, DOM Manipulation, React Hooks, GraphQL, Data Modeling, SQL Joins, JSON Web Tokens (JWT)

EDUCATION

University of South Florida, Remote February 2026

Software Engineering Bootcamp Certification

Florida State University, Tallahassee, Florida April 2022

Master of Science in Social Science Education

PROFESSIONAL EXPERIENCE

University of South Florida, Remote June 2025 - Present

Software Engineering Fellow

- Developed [ClassPulse](#), a full-stack platform for tracking classroom behavior and student participation, providing **real-time dashboards and exportable reports** for educators and administrators, supporting **analytics for up to 30 students per class**.
- Built a responsive **React frontend** with **Tailwind CSS, React Router**, and **CSS** modules to deliver an intuitive, user-friendly interface.
- Implemented a **Node.js and Express backend** with JWT authentication, ensuring secure management of **multi-user data across classrooms and schools**.
- Designed and maintained a **MongoDB database** capable of handling **thousands of engagement and behavior records**, supporting scalable storage and fast query performance.
- Integrated **Chart.js** and **PDFKit** to generate dynamic visualizations and exportable reports, enabling educators to identify trends and actionable insights.

Discovery Academy of Science & Tinker K-8 School July 2022 - May 2025

Middle School Social Studies Teacher

- Developed and implemented differentiated lesson plans for 6th-8th grade World History, Civics, and United States History, addressing the needs of both advanced and regular-level students.
- Designed and graded assessments aligned with learning objectives and state standards.
- Managed classrooms of 10–25 students, applying positive behavior management strategies to maintain an effective learning environment.