Christopher Broyles

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SUMMARY

Analytical and solutions-oriented professional with a strong background in mathematics education and current experience as a material estimator at Boeing, where attention to detail, data interpretation, and process accuracy are essential. Recently completed LaunchCode's software development program, gaining hands-on experience with Java, JavaScript, and full-stack web development. Looking to apply my problem-solving skills and technical training in a collaborative environment focused on building reliable, data-driven applications and scalable tools.

LANGUAGES | FRAMEWORKS | TOOLS

Java, JavaScript, HTML, CSS | React, Jest, Spring Boot | MySQL Workbench

EXPERIENCE

Boardgame Library — LaunchCode Capstone Project

- A web-based inventory management system for board game libraries that tracks check-ins and check-outs, integrates with BoardGameGeek's API, and displays real-time availability.
- Integrated BoardGameGeek API to dynamically import and display a large collection of board games
- Built check-in/check-out functionality with conditional rendering to update game availability and associated table assignments
- Developed a React-based component structure for managing game state, table data, and user interactions in real time
- Full Project Tech Stack: React, JavaScript, BoardGameGeek API, HTML, CSS, Git, VS Code

Material Estimator — The Boeing Company

June 2025 - Present

- Analyze complex engineering provided bill of materials consisting of 1000+ items to estimate cost of required materials for aerospace production
- Collaborate with cross-functional teams to ensure material specifications align with production and budgetary goals, improving project planning efficiency by 15%
- Utilize internal software tools and Excel formulas to streamline data entry, reducing errors and improving turnaround time on estimates
- Track project data across multiple systems with 98% accuracy, ensuring compliance with company standards and budget constraints

Mathematics Instructor — Pattonville High School

August 2010 - June 2025

- Designed and implemented curriculum for advanced mathematics courses, including Calculus III, helping students consistently score 10% above the national average on AP exams
- Led a 5-member data team in analyzing student performance using Excel, resulting in an 88% pass rate on state assessments
- Piloted and trained peers on educational technologies that increased student engagement and classroom efficiency by 20%
- Presented instructional innovations at district-level conferences, influencing teaching practices across multiple schools

EDUCATION

LaunchCode, Full-Stack Software Development, Expected 2025

Southeast Missouri State University, Master of Natural Science, Mathematics