

OLIVIA BRUCE

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Full-Stack Engineer

Full-stack software engineer proficient in JavaScript, Node, and React, with a strong background in education, data processing, and leadership. Transitioned from a career in Art Education to web development to support companies in building responsive, scalable, and maintainable web applications. Skilled in data analysis and creative problem-solving, with a focus on developing innovative web solutions, streamlining codebases, and enhancing overall development efficiency.

Portfolio

Technical Skills

JavaScript, AWS, ES6, HTML5, CSS3, BEM, React, npm, Node.js, Express.js, MongoDB, Git, Docker, Webpack, Babel

Technical Projects

ColorMuller App | [Frontend](#) | [Live](#)

Nov 2024 - Feb 2025

Tech: JavaScript, React, HTML, CSS, Node

This app allows users to create palettes, either random or based on an image, and save them.

- Implemented responsive UI using React, improving mobile usability across 3+ device types
- Developed reusable and maintainable React components, reducing code duplication by 30%

What to Wear APP | [Frontend](#) | [Backend](#) | [Live](#)

Aug 2024 - Oct 2024

Tech: JavaScript, React, HTML, CSS, Node, Express.js, MongoDB

This app allows users to see what clothes to wear based on the weather in their location.

- Built RESTful APIs using Express.js and MongoDB, handling ~500 requests per day during peak usage
- Deployed production code on AWS EC2, achieving 99.9% uptime during testing
- Integrated weather API to display clothing suggestions for 1000+ global cities
- Reduced average page response time by 25% using backend optimization techniques

Around the US App | [Frontend](#) | [Live](#)

May 2024 - Aug 2024

Tech: JavaScript, React, HTML, CSS, Node, Express.js, MongoDB

This is an Instagram-like web application that allows users to share their photo content

- Developed and launched full-featured frontend and backend, supporting 200+ photo uploads
- Implemented user authentication and session management, increasing session security by 80%
- Built scalable architecture with modular components, allowing for future integration of social features

Experience

External Web Dev - Oregon Fire Code Authority

May 2025 - Present

- Developed a ground up web application for the Oregon Fire Code Authority with a team of developers
- Implemented custom themes and plugins to enhance functionality, enhancing user experience and data management
- Ensured website compliance with accessibility standards, and handled several backend tasks including database management and server configuration

TripleTen Web Developer Professional Training

April 2024 – March 2025

- Completed an intensive, project-based software engineering program focused on full-stack web development using JavaScript, Node.js, Express, and React.
- Implemented landing pages using a responsive mobile-first approach
- Developed dynamic MERN stack web applications from scratch

Scoring Director(Promoted) - DRC

April 2024 - Present

- Directed scoring operations using proprietary digital platforms and databases, improving the accuracy and confidentiality of large-scale student assessment data processing and contributing to faster reporting turnaround times.
- Partnered with IT and systems support teams to proactively resolve platform issues and optimize workflows, leading to a measurable reduction in system downtime and improved platform reliability.
- Managed quality assurance processes through digital auditing tools and scoring analytics, resulting in consistently high scoring reliability across teams and contributing to client satisfaction and contract renewals.
- Utilized data visualization tools (e.g., Excel, Tableau, internal dashboards) to monitor scorer performance, identify error patterns, and inform targeted process improvements, which reduced error rates and enhanced team efficiency.
- Maintained strict adherence to digital security protocols and data privacy regulations, safeguarding sensitive student information and ensuring full compliance during audits and external reviews.

Substitute Teacher - Greenbrier Public Schools

July 2023 - March 2024

- Adapted rapidly to a variety of classroom technologies and learning platforms (e.g., Google Classroom, Microsoft Teams, Schoology), enabling consistent and uninterrupted instruction across diverse subjects and grade levels.
- Maintained accurate digital attendance records and updated student progress reports within school-specific student information systems (SIS), supporting timely and data-informed administrative decisions.
- Implemented lesson plans from cloud-based systems and LMS platforms, ensuring smooth instructional transitions and minimizing disruptions during teacher absences.
- Facilitated effective communication with administrators, teachers, and parents via email, messaging apps, and school portals, contributing to improved transparency, timely updates, and stronger collaboration across school stakeholders.

Art Teacher - Cedar Ridge

June 2022 - July 2023

- Utilized Learning Management Systems (LMS) like Google Classroom or Canvas to distribute materials, grade assignments, and facilitate digital learning.
- Created multimedia instructional content, including video tutorials and interactive presentations using tools like Canva, Prezi, and PowerPoint.
- Spearheaded a digital art initiative to introduce students to animation and digital illustration, increasing tech adoption in the arts curriculum.
- Delivered lesson plans using interactive whiteboards, document cameras, and digital projectors to ensure continuity of instruction.

Education

- **Full-Stack Web Developer Certificate**, TripleTen
- **M.S. Education**, University of Central Arkansas
- **B.S. Computer Science**, University of Arkansas - Fort Smith