

# OLIVIA BRUCE

[olivia.bruce1995@gmail.com](mailto:olivia.bruce1995@gmail.com) | 501-288-4599 | [linkedin.com](https://www.linkedin.com) | [Github](https://github.com) | Conway, AR(Open to relocate)

## Full-Stack Engineer

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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.

## Technical Skills

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

## Technical Projects

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### 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

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### 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**

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| • <b>Full-Stack Web Developer Certificate</b> , TripleTen            | <b>2025</b> |
| • <b>M.S. Education</b> , University of Central Arkansas             | <b>2023</b> |
| • <b>B.S. Computer Science</b> , University of Arkansas - Fort Smith | <b>2016</b> |