

TRACE BOGGS

Lawton, Oklahoma | (580)-699-1689 | trace.boggs05@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Education

Cameron University Lawton, Oklahoma
Bachelor of Science in Computer Science, Bachelor of Arts in Mathematics (Graduation: 2026)

- **GPA:** 4.0, Presidents Honor Roll
- **Relevant Coursework:** Data Structures, Algorithm Analysis, Operating Systems, Network Programming, Calculus III, Differential Eq, Computer Architecture, Databases, Web Dev.

Experience

Math Tutor for Cameron University (Jan 2024 – present)

- Provided personalized tutoring sessions for students in Algebra, Trigonometry, and Calculus.
- Developed communication skills and the ability to effectively explain concepts in a professional, yet personalized manner.

Projects

Euler's Method Calculator (September 2024)

- *Description:* Developed a web application using C++ and Crow to solve ODEs via Euler's Method, hosted on a Raspberry Pi. <http://eulerscalculator.ddns.net/>
- *Technologies:* C++, Crow, HTML/CSS, JavaScript.
- Built a backend with RESTful API to handle calculations.
- Implemented error handling and optimized frontend-backend communication.
- Github: <https://github.com/TBoggs05/Diff-Eq-Calculator>

"LightStop" Mobile Game (May 2024)

- *Description:* Developed in Unity using C#. Based on cyclone arcade game and pop the lock. Deployed on both IOS and Android. Implemented Unity Ads API, live leaderboard, and more. <https://sites.google.com/view/lightstop/home>
- *Technologies:* C#, Unity, API's.

Leader of 2-Day Game Jam Team (June 7-9, 2024)

- *Description:* Led a team of 3 in a 2-day Game-Jam. Built a 2d platformer using unity and C#. Available on Itch.io: <https://tpoggs.itch.io/tails-of-two-escape>

Arduino Calculator (August 2024)

- *Description:* Arduino calculator with 4x4 keypad and lcd display. Built skills with Arduino and embedded systems technology.
- Github: <https://github.com/TBoggs05/Arduino-Simple-Calculator>

Proficiencies

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- **Languages:** C++, C#, Java, HTML, CSS, JavaScript, PHP, SQL
 - **Software/Tech:** Unity, Git/GitHub, Arduino, Crow (C++), VS Code, Visual Studio