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# BRE RICKNER

## Fullstack Software Engineer

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If at first, you don't succeed, then next time start with *TDD*.

Good things will come to those who wait, except for those who skip *updates*.

Slow and steady wins the race,

... except with Big O,

that's just not the case.

Teams in *motion* stay in *motion*;

...and maybe with Bre,

can even **boil the Ocean**.

### STACKS

**LAMP** - 90% - Holberton School's preferred stack

**MISC** - 10% - Maker's Club and personal projects

### PROJECTS

**FuzzFeeds** – An IoT Integration System for Pets

*Python, ThingSpeak, C++, Arduino, HTML, CSS, Bootstrap*

- Helped architecture the MVP for an IoT Integration system that incorporated wearable IoT devices that would send a Tweet in response to my cat's whereabouts.
- Integrated Arduino(C++) and Python scripts into their respective microcontrollers that would output and parse NMEA strings for GPS coordinates
- Automated POST requests to Twitter's API with the MATLAB data collected from our IoT devices and stored in ThingSpeak

**The BreR Escape Room** – VR Experience for Oculus Headset

*C# and Unity*

- Animated hand presence, teleportation, snap turn, distance and direct object grab, custom interactable game objects, and scripted C# game logic
- Targeted platforms: Android and OpenXR
- Released an APK Package for open-source use on Github

**Simple Shell** – UNIX Command Line Interpreter

*C Programming Language*

- Mimics output of the native UNIX shell, handling arguments and the PATH
- Zero memory leaks verified through Valgrind

## **Airbnb Clone** – *Deployed full-stack clone of Airbnb web application*

Python, MySQL, Linux, Javascript, HTML, CSS, Flask, Jinja, jQuery, Nginx

- Transformed static HTML pages into a dynamic web application
- Utilized file storage while implementing another database storage system to be used interchangeably.
- Created endpoints to expose and manipulate objects via RESTful API

## LEARNING INSTITUTIONS

### **Holberton School Tulsa** – *Certificate of Software Engineering*

SEPT 2020 – PRESENT (Graduating April 2022)

- Full Stack Foundation | 09/2020 – 06/2021
- AR/VR Specialization | 06/2021 – 04/2022

### **Central Michigan University** – *Core Education*

AUG 2008 – MAY 2010

- National Society of Collegiate Scholars – Member
- Leadership Safari – Freshman Participant

## ORGANIZATIONS

- **Oklahoma Women in Technology(OKWIT)** – Member and Volunteer
- **Techquity** – Member & Volunteer
- **Techlahoma** – Member
- **Maker's Club Tulsa** – Contributor

## PUBLICATIONS

### ➤ “How The Internet Works”

Published in **GeekCulture** – *Medium* (April 25th, 2021)

### ➤ “Striving For Perfection”

Published in “**Authors of Tomorrow**”, *Elder & Leemaur Publishers* (January 2008)

## OBJECTIVE

I've found what I love doing. I like sitting down at my computer in the mornings knowing I'm about to make stuff happen. What's even more thrilling is knowing that there is a lot more out there to learn, and I'm ready to learn it. I'm ready to push my team to go beyond the realm of what they *think* is possible. Above all else, I'm excited by the idea of growing with technology and exploring the full potential it has to offer.