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BRE RICKNER

Fullstack Software Engineer

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 chronically skip *updates*.
Slow and steady wins the race,
… but if you ask Big O that's not the case
Teams in *motion* stay in *motion*;
…and maybe with Bre,
even **boil the Ocean**

STACKS

LAMP - 90% - Holberton School's preferred stack
MEAN - 10% - Maker's Club preferred stack

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

- 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 Program with AR/VR Specialization

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.