

TIMOTHY T. SIZEMORE

315 State Road, China Grove NC 28023

(980) 621-8398 • timsized@yahoo.com

EDUCATION

Western Carolina University Cullowhee, NC • Bachelor of Science in Computer Sci., 2014

• Selected Coursework:

Computer Science Data Structures · Algorithms · Computer Networking · Operating Systems · Object Oriented Systems · Databases · Mobile Application Development · Computer Graphics · Software Engineering · Software Development · Computer Organization

Mathematics Multivariable Calculus · Statistics · Discrete Math · Logic

WORK HISTORY

WCU Office of Institutional Planning & Effectiveness (2011-2014)

Technical Assistant

- Wrote queries to collect statistical data on University population for in office use.
- Designed Python scripts to retrieve dynamically generated pdfs and spreadsheets.
- Developed a program used by the WCU English department that assists in their end of the year assessment.
- Assisted in the development of a webapp to assist in the automation of data requests in and out of office.

NOTABLE PROJECTS (GITHUB.COM/TSIZED)

- Paint Clone
 - Programmed using Java.
 - Developed all shape and brush logic using common design patterns.
 - Created a GUI using Swing.
- Cache Simulator
 - Programmed using Python.
 - Uni-processor capable of storing 32 bytes.
 - Command line interface.
- Circular Bounded Buffer
 - Programmed using C.
 - Entire project completed within kernel space.
 - Allows inter-process communication. Essentially, pipe.
- Ray Tracer
 - Programmed using C++.
 - Creates ray traced graphics in 3D space.
 - Capable of rendering ambient, diffuse, and specular lighting properties.
- Assessment Assist
 - Programmed using VBA.
 - Automated file distribution and data collection with analysis on rubrics.
 - Intuitive Excel interface.
- PiBot
 - Programmed using mostly Python.
 - Consists of a MVC Flask framework dynamic five page website, an API that abstracts hardware from software, and a robot that transmits video back through the website.
 - PiBot uses object detection to avoid hazards by utilizing the camera and a sonar sensor.

SKILLS

- Proficiency in software development in Java, Python, C, C++, Assembly, Visual Basic, Android.
- Familiarity with Regular Expressions, Threads, Sockets, Database Design, SQL, Django, Flask, L^AT_EX
- Familiarity with UNIX, GNU/Linux, Win32.