

CONNOR TAFFE

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EXPERIENCE

Emerging Analytics Center, UALR

Software Engineering Intern

October 2014 - Present

Little Rock, AR

- Worked under Dr. Carolina Cruz-Neira, the inventor of the CAVE system.
- Developed Data Visualization solutions for Oculus Rift, CAVE system.
- Used Unity 3D (scripting with C#) for 3D programming and model manipulation.

BioInformatics

Research Assistant

August - October 2014

Little Rock, AR

- Refactored Genetic algorithm code with an emphasis on common stylistic guidelines, and concurrency.

CentOS Server Wordpress Installation

Freelance Developer

August 2014

- Installed Wordpress on a pre-imaged CentOS server.
- Set up a mysql database and edited Wordpress configs.

Meshher

Freelance Developer

July - August 2014

- Client side stl-editing application built atop THREE.js, a popular WebGL interface.
- Provides a clean interface to many of the common operations done on STL models before 3D printing.
- This application provides a interactable 3D interface for models generated from STL files.
- Provides multiple modification and save options.

Future Tek Inc.

Contract Graphic Designer

June - August 2012

Columbus, MS

- Worked as a contract graphic designer to produce a new catalog, logo, and social media presence. All graphics were designed personally with Inkscape and Gimp.
- This catalog is still in use ([link](#)).

EDUCATION

University of Arkansas, Little Rock

B.S. in Computer Science

June 2018

- Courses: Data Structures and Algorithms, Computer Systems and Assembly Language, Calculus II, Operating Systems, Databases, and Discrete Math.

Cabot High School

2014

Arkansas School for Mathematics, Sciences, and the Arts

2013 - 2014

- First place Intel International Science and Engineering Fair project in Materials Engineering at the local level on my research into 3D printing large angles.
- Courses: Computer Programming II

Mississippi School for Mathematics and Sciences

2012 - 2013

PERSONAL PROJECTS

TcpWsh

November 2014

- Shell script which opens tcpdump with root privileges and routes. packets using an anonymous FIFO to wireshark running with standard permissions.
- Prevents wireshark from being exploited remotely.
- Allows utilization of tcpdump for efficient in-kernel packet filtering.

Lispy

September - November 2014

- Lisp-like interpreter written in Python
- Producer-consumer threading optimizes stages
- Lazy-evaluation of defined variables
- lambda functions
- recursive lambdas
- EBNF formal definition of the language

bf

November 2014 - Present

- Optimizing BrainFuck just-in-time compiler
- Emits x86_64 instructions to executable mmap'd pages
- Producer-Consumer concurrent architecture with a REPL interface

TECHNICAL STRENGTHS

General Programming

Languages: C++, C, Java, Go, Python, C#, Rust
Version Control Systems: git
Networking: C, Java, Go, Python

Operating Systems

BSD: OpenBSD, FreeBSD, Dragonfly BSD, OS X
Linux: Debian, Red Hat Linux, CentOS, Fedora, Ubuntu, Manjaro
Windows: 2000, XP, 7, 8

Unix System Administration

Proficient in shell: bash, sh, tcsh
Proficient with utils: grep, sed, ssh, vim, nano, crontab, tcpdump, tar etc.
Experience with: configuration files, package managers, compilation
Familiar with *nix concepts: users, permissions, processes, cron jobs, files and i/o redirection, daemons, etc.

Web Programming

Server side: Python, Go, Java, Php, and SQL (MySQL)
Client side: JavaScript (jQuery, THREE.js, etc.), CSS, (X)HTML
Servers: Apache, nginx, lighttpd
Written Servers in: Python, Go