CONNOR TAFFE

10907 Lancelot Ct. ◇ Little Rock, Arkansas 72209

(501) · 606 · 1807 ◇ cpaynetaffe@gmail.com ◇ byteflame.org

EXPERIENCE

Emerging Analytics Center, UALR   October 2014 - Present
Software Engineering Intern   *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   August - October 2014
Research Assistant   *Little Rock, AR*

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

CentOS Server Wordpress Installation   August 2014
Freelance Developer

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

Mesher   July - August 2014
Freelance Developer

· 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.   June - August 2012
Contract Graphic Designer   *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   June 2018
B.S. in Computer Science

· 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, Ruby, C#, Rust
Version Control Systems:	git
Networking:	C, Java, Go, Python
Libraries/Projects:	Unity3D, GTK+

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, zsh, ksh, 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