CONNOR TAFFE

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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 Columbus, MS

Contract Graphic Designer

· 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

Lispy September - November 2014

· Lisp-like interpreter written in Python

- · Producer-consumer threading optimizes stages
- · Lazy-evaluation of defined variables
- · lambda functions and recursive lambdas
- · EBNF formal definition of the language

utf8 / utf8plus February 2015 - Present

- · utf8 parser written in C, and C++ wrapper.
- · RFC 3629 compliant.
- · Quick encoding/decoding of runes, rune validation, and string parsing.
- · Reports errors within the rune and codepoint (int32_t) types using appropriate non-valid values in C.
- · Use of the utf8::rune::exception class to report errors in C++, or appropriate C++ standard exception.

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