

MAXWELL CIOTTI

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EDUCATION

Lone Star College 2014

- Involvement in the Society of Math and Engineering and the Computer Science Club

Florida Institute of Technology 2013–2014

Aerospace Engineering

- Coursework in engineering, mathematics, and space sciences
- Involvement in AIAA, Student Rocket Society, ACM, IEEE AEES

EMPLOYMENT

H-E-B Aug 2014–Dec 2014

Customer Service Partner

Florida Institute of Technology ERC Jan 2014–May 2014

Application developer

- Created and maintained a system to log EPA inspections for the Florida Institute of Technology
- Developed a REST API and server-side utilities for managing and viewing reports
- Developed a cross-platform touch-friendly logging application
- Office tech support

Austin First Mortgage Summer 2012

Contractor, website development

- Created internal utilities to streamline loan processing involving financial calculations
- Developed the public website so that users can easily access loan information

VeritasU Summer 2012

Intern, software application design and development

- Collaborated with a small startup to create an online learning management system
- Created a logo and designs for various pages within the application

SELF-MOTIVATED PROGRAMMING & DESIGN EXPERIENCE

Fractal Generator

Oct 2013–

Experimentation with rendering fractals using Lindenmayer Systems and Turtle graphics

- Languages: JavaScript/CoffeeScript, HTML, CSS
- Created a parallel formal grammar rewriting system

Universe Simulator

Aug 2013–Dec 2013

Web application, capable of simulating a two-dimensional universe with realistic gravity, including various orbits and n-body choreographies

- Languages: JavaScript/CoffeeScript, HTML, CSS
- Familiarization with various approaches to n-body problems

QuickHAC

Dec 2012–Aug 2013

<http://www.quickhac.com>

Chrome extension and iOS/Android application, automatically checks student grades periodically and provides students with a more accessible and aesthetically pleasing interface to view their academic progress

- Languages: Ruby, HTML, CSS, JavaScript, TypeScript, JSON
- Lead designer: iOS, Android, Chrome
- Implemented the client-side logic and functionality

Chaotic Attractor

Oct 2011–Nov 2011

Web experiment, generates strange attractors

- Languages: JavaScript, HTML, CSS
- Familiarization with the WebGL 3D graphics framework

SKILLS & ABILITIES

Computer Software

Extensive experience with:

- creating interactive websites and website designs
- document processing such as Microsoft Word and LaTeX
- slideshow programs such as Microsoft PowerPoint
- spreadsheet programs such as Microsoft Excel

Intermediate experience with:

- CAD software such as AutoDesk Inventor and Creo Parametric
- computational software such as MATLAB and Mathematica
- graphics software such as Adobe Photoshop, Adobe Illustrator

Computer Programming

- Experience with UNIX-like terminals and compiling software
- Experience with version control systems such as Git
- Experience with REST APIs and SQL/Object-Store databases

Known programming languages and paradigms, in order of experience

- JavaScript, CSS, HTML, C, C++, Fortran, PHP, Ruby, Lua, Make, Bash, Batch Script

Electronics

- Familiar with computer components and building computers
- Familiar with breadboard prototyping, FPGAs, and soldering
- Experience with digital logic circuit design and state machines

Graphic Design

- Matured sense of design in graphic arts
- Experience with GUI and UX design

Updated 4 February 2015