MAXWELL CIOTTI

(512) 364-0226 · MAX@MDC.IO

EDUCATION

University of Houston
Jun 2015–May 2018

Pursuing B.S., Computer Science & Mathematics minor

- Cumulative GPA: 3.5
- Coursework in computer sciences, digital media, and mathematics
- Officer of IEEE NSM campus organization (historian)
- Officer of CougarCS campus organization (designer)
- Co-organizer of Humans of UH

Lone Star College
Jun 2014–May 2015

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

EMPLOYMENT

University of Houston: DASH
Aug 2015–

Application developer, research programmer (data analytics), IT support

- Honors program: Data Analytics in Student Hands
- Maintained a form building application for a community health management system
- Created web application to view and modify a variety of environmental sensor data
- Increased data editing efficiency by roughly 300%

Florida Institute of Technology ERC
Jan 2014–May 2014

Application developer

- Created and maintained a system to log EPA inspections
- Developed a REST API and server-side utilities for managing and viewing reports

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 startup to create an online learning management system
- Helped prototype a quiz-building application
- Created a logo and designs for various pages within the application

SKILLS & ABILITIES

Computer Programming

- JavaScript: > 25,000 lines of code written
- CSS: > 14,000 lines of code written
- Java: > 5,600 lines of code written
- HTML: > 4,800 lines of code written
- C++: > 2,900 lines of code written
- Others: PHP, C, Swift, Lua, Fortran, Make, Ruby, Python, Bash, Batch Script, R
- UNIX command line and compiling software
- Git version control system

Computer Software

- Adobe Photoshop, Adobe Illustrator, Sketch
- AutoDesk Inventor, Creo Parametric
- MATLAB, Mathematica

INDEPENDENT PROGRAMMING & DESIGN EXPERIENCE

See an index of my projects and experiments at http://mdc.io

EvntQ   Nov 2015

http://www.evntq.com

Web application, allows guests to act as a collaborative DJ at an event

- Technologies: Meteor, MongoDB, JavaScript, Spotify API
- Created in less than 48 hours for the UH CodeRED Hackathon

Particle Playground   Aug 2013

Web experiment, capable of simulating two-dimensional particle physics with realistic gravity, including various orbits and n-body choreographies

- Technologies: JavaScript (ES6), HTML5 Canvas
- Familiarization with various approaches to n-body problems, quadtree optimization

QuickHAC   Dec 2012

http://www.quickhac.com

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

- Technologies: Ruby, HTML, CSS, JavaScript, TypeScript
- Led design for iOS, Android, and Chrome platforms
- Implemented the client-side logic and functionality
- 5,000 users at peak usage