

# MAXWELL CIOTTI

(512) 364-0226 · MAX@MDC.IO

## EDUCATION

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### University of Houston

Jun 2015–May 2018

*Pursuing Bachelor of Science in Computer Science & minor in Mathematics*

- Cumulative GPA: 3.5

## ACTIVITIES & INVOLVEMENT

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### Leadership

- Officer of IEEE NSM campus organization (historian)
- Officer of CougarCS campus organization (designer)
- Co-organizer of Humans of UH (photographer and designer)

## SKILLS & ABILITIES

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### 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

## WORK EXPERIENCE

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### 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 atmospheric sensor 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

## INDEPENDENT PROGRAMMING & DESIGN EXPERIENCE

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*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

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Updated 30 January 2016