

# Michael Wang

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[GitHub](#) • [Portfolio](#) • [LinkedIn](#)

- Experience**    **Co-Founder, Software Developer** – Halboom LLC (2009 – 2016)
- Programmed a framework in haXe, AS3, and Python that has run on millions of machines of varying hardware delivering stability and performance.
  - Improved rendering performance, enabling a 60 fold increase in on-screen dynamic objects by caching transforms seamlessly.
  - Developed a marketing automation program which interacts with and reverse engineers select sites increasing per game revenue by up to 600%.
  - Lead the development and design of games, resulting in millions of plays.

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**Projects**    **Code Splat** - Ruby on Rails, React/Flux [\(live, github\)](#)  
*Code annotation website inspired by Genius.*

- Integrated syntax and annotation highlighting to make code easier to read.
- Built error handling for annotations, improving UX and preventing overlaps.
- Implemented text history for models using polymorphic associations.
- Optimized  $O(n^2)$  difference checks to  $O(n \log n)$  by using intermediate hashes.

**JSES** - JavaScript ES6, WebGL, Node.js [\(github\)](#)  
*A framework for developing rich applications using composition, physics, and rendering.*

- Designed the architecture to use composition via primitive data allowing for more reusable and less coupled code.
- Programmed a factory using JSON to create objects for codeless prototyping.
- Created the physics system with optimized collision, reducing the time complexity from  $O(n^2)$  to  $O(n)$  through broad phase grid partitioning.

**Blockineer 2** - haXe, Actionscript 3, Flex [\(live\)](#)  
*Physics puzzle game, includes a map editor and an online map browser.*

- Developed a smart caching rendering system, which allowed displaying thousands of transformed and animated objects at a time.
- Created a level editor and browser which increased longevity and lead to over 7500 levels being created.

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**Education**    **Rutgers University - New Brunswick** – 2005 - 2009  
BS Electrical and Computer Engineering, **GPA 3.43**

**App Academy** – Feb - May 2016  
Rigorous web development course that teaches Rails, SQL, JS, React, TDD, best practices, and pair programming, less than 3% acceptance rate.

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**Skills**    **Ruby, Ruby on Rails, JavaScript, Node.js, React.js, Flux, jQuery, SQL, CSS, HTML, Git, TDD, Agile Methodology, Python, Java**