

Michael Wang

New York, NY 10012
E-MAIL mwwwbox@gmail.com

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Experience	<p>Co-Founder, Software Developer – Halboom LLC (2009 – 2016)</p> <ul style="list-style-type: none">• 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 interfaces with sites and manipulates the DOM, increasing per game revenue by up to 600%.• Lead the development and design of games, resulting in millions of plays.
Projects	<p>Code Splat - Ruby on Rails, React/Flux (live, github) <i>Code annotation website inspired by Genius.</i></p> <ul style="list-style-type: none">• 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. <p>JSES - JavaScript ES6, WebGL, Node.js (github) <i>A framework for developing rich applications using composition, physics, and rendering.</i></p> <ul style="list-style-type: none">• 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. <p>Blockineer 2 - haXe, Actionscript 3, Flex (live) <i>Physics puzzle game, includes a map editor and an online map browser.</i></p> <ul style="list-style-type: none">• 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.
Education	<p>Rutgers University - New Brunswick – 2005 - 2009 BS Electrical and Computer Engineering, GPA 3.43</p> <p>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.</p>
Skills	<p>Ruby, Ruby on Rails, JavaScript, Node.js, React.js, Flux, jQuery, SQL, CSS, HTML, Git, TDD, Agile Methodology, Python, Java</p>