

# Ruiqi Mao

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<b>EDUCATION</b>	<b>Brown University</b> 2014 - Present <i>Providence, RI</i> Senior pursuing <b>B.S. in Computer Science</b>
<b>LANGUAGES</b>	<b>Expert:</b> C, C++, Python, JavaScript, Java, HTML/CSS <b>Proficient:</b> Swift, Objective-C, PHP, SQL
<b>EXPERIENCE</b>	<b>Brown University CS123</b> 2016 - 2017 <i>Head Teaching Assistant</i> <ul style="list-style-type: none"><li>• Head TAed for Brown University's Introduction to Computer Graphics course</li><li>• Prepared lectures, labs, and projects for students involving OpenGL, C++, and software design</li><li>• Organized course logistics to ensure it ran smoothly</li></ul> <b>Esgyn</b> 2016 <i>Software Engineer Intern</i> <ul style="list-style-type: none"><li>• Contributed to open source Apache Trafodion project by building a graphical installer</li><li>• Built an end-to-end solution for IoT, connecting wireless devices to EsgynDB</li></ul> <b>Intel</b> 2015 <i>Firmware Engineer Intern</i> <ul style="list-style-type: none"><li>• Developed firmware for upcoming enterprise solid state drives</li><li>• Developed new infrastructure leading to more streamlined firmware testing</li><li>• Reduced build times for all SSD platforms leading to accelerated development</li></ul> <b>GifYoutube</b> 2014 <i>Lead Developer</i> <ul style="list-style-type: none"><li>• Developed a front-end interface for the online web app</li><li>• Developed a back-end system in Java to efficiently download and convert clips of YouTube videos into animated GIFs, MP4 files, and WebM files</li></ul>
<b>PROJECTS</b>	<b>Keyboard PCB Guide</b> 2017 <ul style="list-style-type: none"><li>• Wrote an online guide detailing keyboard PCB design and how to create one from scratch using the free KiCad software.</li></ul> <b>QMK Firmware Builder</b> 2017 <ul style="list-style-type: none"><li>• Built a webapp with React.js for mechanical keyboard enthusiasts</li><li>• Allows users to customize the firmware of almost any custom keyboard with the click of a button</li></ul> <b>JusText</b> 2014 <ul style="list-style-type: none"><li>• Built a system with PHP and Python for "dumbphones" to interact with the Internet through SMS</li><li>• Developed for HackPrinceton 2014 and received <i>First Place in Software</i> and the <i>Microsoft API Award</i></li></ul>
<b>AWARDS</b>	<b>HackPrinceton</b> 2014 <i>First Place Software, Microsoft API Award</i> <ul style="list-style-type: none"><li>• Built JusText, a system for "dumbphones" to interact with the Internet through SMS</li></ul> <b>Zero Robotics</b> 2011 - 2014 <i>National Champion</i> <ul style="list-style-type: none"><li>• Programmed SPHERES robots in the International Space Station using C++ to compete in the annual MIT Zero Robotics Challenge</li></ul>