

# Ruiqi Mao

Software Engineer at Google

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## SKILLS

**Expert:** C, C++, Python, JavaScript, Java, HTML/CSS, OpenGL

**Proficient:** PHP, SQL, React.js, TensorFlow

## EXPERIENCE

**Google** 2018

*Software Engineer Intern*

- Worked on Google's open source 2D graphics library Skia
- Added support for skinning to Skia API in order to ease character animation
- Improved performance of Skia vertices objects by enabling caching in the GPU

**Brown University CS123** 2016 - 2018

*Head Teaching Assistant*

- Head TAed for Brown University's Introduction to Computer Graphics course
- Prepared lectures, labs, and projects for students involving OpenGL, C++, and software design
- Organized course logistics to ensure it ran smoothly

**Esgyn** 2016 - 2017

*Software Engineer Intern*

- Contributed to open source Apache Trafodion project by building a graphical installer
- Built an end-to-end solution for IoT, connecting wireless devices to EsgynDB

**Intel** 2015

*Firmware Engineer Intern*

- Developed firmware for upcoming enterprise solid state drives
- Developed new infrastructure leading to more streamlined firmware testing
- Reduced build times for all SSD platforms leading to accelerated development

**GifYoutube** 2014

*Lead Developer*

- Developed a front-end interface for the online web app
- Developed a back-end system in Java to efficiently download and convert clips of YouTube videos into animated GIFs, MP4 files, and WebM files

## PROJECTS

**Keyboard PCB Guide** 2017

- Wrote an online guide detailing keyboard PCB design and how to create one from scratch using the free KiCad software.

**Keyboard Firmware Builder** 2017

- Built a webapp with React.js for mechanical keyboard enthusiasts
- Allows users to customize the firmware of almost any custom keyboard with the click of a button

## AWARDS

**Zero Robotics** 2011 - 2014

*National Champion*

- Programmed SPHERES robots in the International Space Station using C++ to compete in the annual MIT Zero Robotics Challenge

## EDUCATION

**Brown University**

*Providence, RI*

**B.S. in Computer Science** 2014 - 2018

**M.S. in Computer Science** 2018 - 2019