

Ruiqi Mao

Computer Science Graduate Student at Brown University
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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 - Present

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

Pursuing M.S. in Computer Science 2014 - Present