

MADELEINE YIP

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OBJECTIVE

Looking for graphics
software engineering
intern roles working on
rendering and simulation

EDUCATION

Stanford University
Computer Science
(B.S.), Graphics
Art Practice (B.A.)
Grad date: Jun 2020
GPA: 3.8

SKILLS

Programming Languages

 C++  C
 Python  Java
 OpenGL  Javascript

Programming Skills

 Object-oriented

 UNIX/Linux

 Unreal

See my work at
www.github.com/mjyip8

Other:

 Scrum Methodology

 Maya

INTERESTS

Computer Graphics,
Animation, Women in STEM,
Oil Painting, Running half
marathons

WORK EXPERIENCE

Virtual Reality Software Developer

- Create and conduct virtual reality studies for the Stanford Virtual Human Interaction Lab
- Use 3D modelling and Python to simulate worlds in 3DS Max and Unreal to collect and analyze experimental data

Sept
2018 -
Now

Microsoft Explore Intern (PM/Software Dev)

- Redesigned UX and look of Microsoft's internal website which tracks worldwide transactions real-time
- Used Javascript for processing and visualizing data
- Created pop-up notifications feature with Javascript & HTML based on user customization and abnormal traffic

Jun
- Sept
2018

PROJECTS

- Implemented Teran 2013 paper *A Material Point Method for Snow Simulation* in C++
- Transferred particle data to grid space to compute forces from energy function and transferred grid velocities back

Mar
2019

Position Based Fluids Simulation

- Implemented Macklin and Muller 2013 paper *Position Based Fluids* in Java
- Used position-based density constraints, surface tension correction, vorticity confinement and XPSH viscosity

Mar
2019

ORGANIZATIONS

Stanford Women in Computer Science

External Events Chair

- Coordinate educational events about interdisciplinary careers in Computer Science
- Organized and conducted speaker & attendee outreach for Spring Distinguished Speakers series, attended by over 100 undergrads

2017 -
Now

Planned Parenthood Mar Monte

Kids in Common Website Developer

- In process of redesigning website with improved functionality

Mar
2019 -
Now

Stanford Seeds of Change Program

Circle Leader

- Led STEM leadership training workshops for high school school students in East Palo Alto, a historically marginalized community

Sept
2017
- May
2018