April Roszkowski

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I am a third-year student at University of Minnesota-Twin Cities majoring in Computer Science (emphasis in graphics) with a minor in Mathmatics. I mostly work with C/C++, but have knowledge of a number of other languages. Alongside school work, I've had considerable experience with research for an undergraduate—in both optimal control theory, and computer graphics/visualization.

Skills

Programming	C, C++, OCaml, Python, Java, **OpenGL**, C#, HTML, CSS
Development tools	Visual Studio, git, Unix
Other software	MatLab, R, LaTeX, Microsoft Office

Education

Expected May 2021

University of Minnesota-Twin Cities, College of Science and Engineering
> Bachelors of Science in Computer Science, minor in Mathematics
> GPA : 3.83

Research

August 2019 – June 2019

Mathematics REU, Cornell University
> Studied multi-robot motion planning using optimal control theory under professor Andrew Borum
> Visualized bifurcations within our problem's solution space and characterized general stable solutions to the system

March 2019 – June 2018

Big Data Research, University of Minnesota
> Recreated traditional Micronesian seafaring methods using virtual reality to bolster Micronesian cultural heritage
> Collaborated with and maintained a code base for 5 other undergraduates and myself

July 2016 – June 2016

Wisconsin IceCube Particle Astrophysics Center (WIPAC) Internship, University of Wisconsin
> Developed and tested heuristic-based algorithms to classify particle radiation images
> Created a citizen-science page on Zooniverse.org to involve the public in research by classifying particle radiation images

Employment

Present – September 2019

Teaching Assistant, University of Minnesota
> Aid students' understanding of functional programming concepts and assignments in OCaml
> Oversee weekly hands-on lab activities for pupils and grade exams, projects, quizzes

Languages

English ● ● ● ● ●
Spanish ● ● ● ○ ○

Achievements

> Dean's List Member : Fall/Spring 2018, Fall/Spring 2019
> National Merit Scholar 2017