Margaret Dorsey

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Education

Rochester Institute of Technology

Game Design and Development, BS	Computational Mathematics, BS
Computer Science, Minor	Japanese, Minor
GPA 4.0	**Expected Graduation** May 2018

Erie Community College

Associates of Science in Mathematics, 2014

Projects

Wyvern Engine, Ongoing

Designed and implemented a from scratch rendering and physics engine using C/C++, OpenGL 4, and GLFW.

Math Undergraduate Research, June - Dec 2015

Researched the application of Lie Groups of symmetry transformations to ordinary and partial differential equations, as well as variational problems.

Global Game Jam 2016

Led a team of six in the production of an infinite runner in Unity for Global Game Jam 2016 over 48 continuous hours. Handled program architecture, documentation, source control, and the majority of back end code.

Work Experience

Teaching Assistant, Rochester Institute of Technology, Spring 2016

Assisted with instruction and grading for a Web Design and Development class for Professor Sean Boyle

Blood Donor Ambassador, American Red Cross, Summer 2016 to present

Greeted and managed donors at Red Cross Blood Drives.

Herman Badillo Bilingual Academy, Buffalo Public Schools, Summer 2014

Performed clerical duties, handled payroll, and handled front end administration for a summer school program in Spanish and English.

Coursework

Multivariable and Vector Calculus	Differential Equations
Elementary and Advanced Linear Algebra	Discrete Math and Number Theory
Real Analysis	Geometric Algebra
University Physics	Graphics Programming
Computer Architecture and Organization	Parallel and Distributed Computing
Networks and Network Programming	

Skills

C	C++	C#
Java	MIPS Assembly	HTML
CSS	JavaScript/JQuery	Unity
git	Autodesk Maya and Mudbox	Maple 2015
OpenGL 4.5	LaTeX	

Awards and Achievements

Gilman Award

Awarded to support Mathematics study abroad experience in Hungary by the US Dept. of State

RIT Honors Program, 2015 - Present

William Major Byers Award Recipient, 2013

Awarded for Excellence in Mathematics.

Nathaniel Rochester Society Award

Awarded for exceptional contribution to the RIT community.