

# Matthew Russell

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[clarvel.github.io](http://clarvel.github.io)

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## EDUCATION

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<b>University of Minnesota</b> B.S. Computer Science, A.I. and Robotics Track	Minneapolis, MN 2011-2015
<b>University City High School</b>	St. Louis, MO 2007-2011

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## EXPERIENCE

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<b>Washington University Radiation Oncology</b> <i>Laboratory Assistant</i> Assisted with cultivation and analysis of cell cultures Developed a potential webpage for the laboratory	St. Louis, MO Jun 2011-Aug 2011
<b>University United Methodist Church</b> <i>Teacher's Assistant, Volunteer Service</i> Supervised children Cleaned and organized supplies Assisted with renovation and general maintenance	St. Louis, MO Summers 2008-2013

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## SKILLS

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Python	C++	Java
Javascript, HTML	Matlab	Ardino Microcontroller
Microsoft Office Suite	Photoshop	Adobe Illustrator

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## PROJECTS

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HexSpace, a 3D space shooter  
Vanquish the Night, a top-down puzzle platformer  
Air Hockey playing robot  
Boids flocking game  
A\* and Dijkstra's algorithms implemented in 3D  
3D raytracer supporting Phong illumination, reflections, and refractions  
Script to phonetically translate text to fictional languages (TennoTyper)  
Robot to follow a wall some distance away  
Terminal based implementation of GO  
Modeling and analysis of bus route efficiency  
Modable IRC chat client