

# Miguel Lumapat

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<b>EDUCATION</b>	Bachelor of Science in Computer Science Binghamton University, Binghamton, NY GPA: 3.53/4.00, Dean's List: 2014-2015	<b>Expected May 2017</b>
<b>TECHNICAL SKILLS</b>	<b>Languages:</b> C++, C, Java, Python <b>Frameworks:</b> Qt4/5, Swing, Kivy, Flask <b>OS/Technologies:</b> Windows 7/8/8.1/10, Ubuntu, Debian, Git, HTML, CSS, Eclipse	
<b>NOTABLE PROJECTS</b>	<b>Deceit</b>	<b>Rochester, NY, March 2016</b>
	<ul style="list-style-type: none"><li>• Online board game developed in Python in team of three at a hackathon</li><li>• Implemented back-end of board game comprising player turns, score updates, and card selection.</li><li>• Utilized Flask framework to implement client-server interaction for multiplayer capability</li><li>• Recipient of <b>Best FOSS Hack, BrickHack2</b> award</li></ul>	
	<b>Graphics Engine</b>	<b>May 2014 - September 2015</b>
	<ul style="list-style-type: none"><li>• Developed in C; GUI-less program aimed at providing renderings of animations seen in everyday games and movies</li><li>• Implemented line drawing foundation, standard wire meshes for polygon and 3D shape rendering, Bezier curves, and basic model animations such as walking and arm-twisting to create vivid animated shorts</li></ul>	
	<b>FireGem</b>	<b>October 2014</b>
<b>RELEVANT COURSES</b>	<ul style="list-style-type: none"><li>• Turn based video game developed in Java using Swing GUI framework</li><li>• Organized game structure from engine to user interface, implemented critical structures such as event queues, statistics trackers, and AI on multiple difficulties</li><li>• Collaborated together with a graphic artist to provide visually striking character images, combat animations, level design, and in-game and main menu layouts</li></ul>	
	<b>Algorithms</b>	<b>Fall 2015</b>
	<ul style="list-style-type: none"><li>• Completed rigorous analytic coursework on several critical algorithms relating to path optimization, image processing/rendering, and graph operations</li><li>• In a project group of two, implemented jump-point search algorithm in C++ used in robotics and games for unit movement as well as designed robust case testing and arranged presentation</li></ul>	
<b>EXTRA-CURRICULAR ACTIVITIES</b>	<b>Systems Architecture and Programming</b>	<b>Fall 2015</b>
	<ul style="list-style-type: none"><li>• Accomplished several projects focused on C programming, x86 architecture including assembly analysis/reconstruction, and CPU cache design</li><li>• Gained important operating system concepts such as scheduling and virtualization to supplement and enhance code design and feature implementation</li></ul>	
	<b>Computer, Robotics, and Engineering (CoRE)</b>	
	<b>Learning Community</b> Board member	2013 - Present
	<b>Binghamton ACM</b> Project Contributor	2013 - Present