Kevin O'Mara

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Education:

Master of Science: Computer Science **Expected Graduation: December 2017**
*San Diego State University (SDSU), **GPA: 3.88***

Bachelor of Science: Physics **May 2016**
*SDSU, **GPA: 3.66***

Courses:

Software Engineering	Data Structures
Programming Languages	Algorithms & Analysis
Operating Systems	Database Theory & Implementation
3D Game Programming	Spatial Databases
Adv. 3D Game Programming	Adv. Multimedia Networks
Modern Optics & Lasers (+Lab)	
Methods of Applied Mathematics I & II	

Skills:

Languages: C#, C, Fortran, Bash, Lua, Java, C++, Python, SQL+

Operating Systems: Windows, Linux (Ubuntu), Unix (Solaris)

IDE: Visual Studio, Eclipse, Atom, Notepad++, ZeroBrane Studio

Tools: Terminal, Git, GitHub, GitLab, Unity3D, LÖVE, Microsoft Office, Photoshop, InDesign

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Projects (https://github.com/kevin-d-omara unless noted; project names are hyperlinks):

Solo:

Dudes-in-a-Corridor (in progress) – wrote a ray marching algorithm for precise line of sight detection on a grid

PongOut – A hybrid between the classics Pong and Breakout, with the added fun of powerups!

Team:

Rocket Car – managed a team of 4 to create a 3D racing game

Physics Senior Thesis – implemented matrix inversion to achieve 3x speedup of many-body Schrödinger approximation algorithm

Huckster – lead an international team in creating the most popular fan-made hero for the board game Shadows of Brimstone
(**https://boardgamegeek.com/filepage/116086/new-hero-huckster**)

Awards & Affiliations:

***Honorable Mention at Northrop Grumman Code-A-Thon**, SDSU*	***11/2016***
***Magna Cum Laude Graduate**, SDSU*	***5/2016***
***Dean's List**, SDSU*	***8/2012 - 5/2016***
***Outstanding Physics Student**, SDSU*	***5/2016***
***Vice President, Society of Physics Students**, SDSU*	***8/2015 - 5/2016***
***Oarsman, Men's Crew**, SDSU*	***8/2012 - 5/2014***
***Most Improved Oarsman**, SDSU*	***5/2013***