

Anthony James Martinez

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OBJECTIVE	An internship or full-time position applying my knowlege in mathematics in the field of computers with special interests in applications programming, information processing, and alogithm design.	
EDUCATION	<i>Bachelor of Science</i> , Mathematics University of California Riverside, Riverside, CA, expected June 2016 Concentration: Computational Mathematics Minor: Statistics GPA: 3.247	
COMPUTER SKILLS	<i>Languages & Software:</i> C, C++, Python, Matlab, Octave, LaTeX, Microsoft Office, Adobe acrobat <i>Operating Systems:</i> Linux, Unix, Windows, OSX <i>Version Control:</i> Git	
OTHER SKILLS	Spanish - Fluent speach/reading/writing	
EXPERIENCE	<i>Math Undergraduate Research Group</i> Mathematics Department, University of California Riverside	Spring 2015
	<ul style="list-style-type: none">• Research in the field of data compression, focusing specifically on lossless data compression.• Met twice a week with my group to discuss our findings and work on the beamer presentation.• Wrote a program for which I implimented the Huffman algorithm to compress files and decompress already compressed files.• Gave a presentation of our findings to the math department.	
PROJECTS	<i>rshell</i> Implimented a basic command shell that emulates the Bash shell for unix-based systems. Runs commands including a custom ls command, supports piping and input/output redirection, and handles various signals. <i>Huffman_Coder</i> Program for which I implimented the Huffman algorithm for lossless data compression. Reduces the size of a file by getting rid of the redundancy in the file using short codewords to represent more frequent strings of bits and longer codewords to represent those that occur less often. This process is reversed to get back the original file.	
EXTRA-CURRICULAR ACTIVITIES	Member <i>The National Society of Collegiate Scholars</i> , UC Riverside Member <i>Math Club</i> , UC Riverside	