Anthony James Martinez

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OBJECTIVE

An internship or full-time position in the field of computers with special interests in applications programming, information processing, and alogithm design.

EDUCATION

Bachelor of Science, Mathematics
University of California Riverside, Riverside, CA, expected June 2016
Concentration: Computational Mathematics
Minor: Statistics
GPA: 3.215

COMPUTER SKILLS

Languages & Software: C, C++, Python, Matlab, Octave, Mathematica, LaTeX, Microsoft Office, Adobe acrobat
Operating Systems: Linux, Unix, Windows, OSX
Version Control: Git

EXPERIENCE

Math Undergraduate Research Group Spring 2015
Mathematics Department, University of California Riverside

- Research in the field of data compression, focusing specifically on lossless data compression.
- 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

rshell
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.

Huffman_Coder
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 *The National Society of Collegiate Scholars*, UC Riverside
Member *Math Club*, UC Riverside