Abhijit Chowdhary

Student at NYU

Abhijit Chowdhary, 9331 Ridings Way, Laurel, MD

Mathworks
Natick, MA

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Dear Sir or Madam,

I am writing this cover letter as an introduction for my application for the position of *Software Engineer in Test Intern for Numerical Algorithms* at your company of Mathworks.

Mathworks work on Matlab has been something I've spent a significant amount of my academic career working with. I remember in my freshman year, when implementing a QR iteration for my numerical computation class, I found out that Matlab ran the same code in minutes, rather than the hours taken by Octave. I realized that this difference was coming from the bottleneck in the actual QR factorization; but I couldn't see what black magic you used to achieve this. To this day I'm still interested in how you guys managed to get it to perform at that level, and if I start in this position, I hope to help create performant algorithms like that. I've spent lots of my academic career studying numerical methods, from taking the PhD numerical methods seminars, to applying it in a Geometric Modeling or Algebraic Number Theoretical context. By using the theory I gained here I hope to help as much as I can. Technically I am an undergraduate while the position calls for a master's or PhD level candidate, but I've taken coursework at the PhD level for numerical methods and should be roughly equivalent.

If you are interested, please send me an email at abhijit9331@gmail.com, or a call to (240) 715-8308. Finally, thank you for taking the time to review my application, have a good day.

Sincerely yours, Abhijit Chowdhary.