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I am a sophomore at the College of Computing, Georgia Institute of Technology pursuing a degree in Computer Science.

My experiences and coursework so far have led to an interest in the fields of software and application development as well as mobile computing. Although I haven't chosen my threads yet, I am interested in Intelligence, Modeling and Simulation, and Info Internetworks.

In the summer of 2015, I worked as a technical intern/consultant at NDTV Convergence, a branch of NDTV, an Indian commercial broadcasting television network. The technical team was working on an e-commerce app for the sale of gadgets and accessories, and I worked on feature development for them. I built a voice search function allowing users to search for mobile phones that suit their needs and wants based on keyword identification. I wrote a script to gather purchase information from order confirmation emails to build a database allowing user experience customization. I also wrote an image-processing script to convert an image into text (OCR), to create an easier way to manage invoice and purchase receipt information. I gained valuable experience in several languages including JavaScript, AngularJS, Python and PHP. Additionally, I worked on debugging the app with the team, which gave me exposure to the various security issues and other flaws to look out for when building an app. Finally, I got some valuable insight into the workings of an organization and developed my understanding of the corporate world.

Working as part of the web-application committee of the e-Stadium research team at Georgia Tech, has given me experience with front-end development. The web-application provides statistics, play-by-play updates and highlights of home football games to Georgia Tech sports fans. We have rebuilt our application to make it more dynamic, which has given me experience with Angular JS and Ionic Framework. Putting together a basic documentation for the e-Stadium API helped in understanding the architecture of applications better and how the separate components work together to create an application.

I also work as a student assistant at the College of Computing, Georgia Tech, where I lecture and facilitate lessons on programming and electronics for high school and middle school students, focusing on increasing minority representation in technical fields. This has given me experience in Arduino coding and basic electronic controllers, as well as the ability to communicate programming concepts effectively. I am now part of a development team, working on projects such as putting together basketball-playing robots, soccer-playing robots and understanding how an Xbox Kinect works in order to build some games and applications with one.

In addition to my technical experience, I bring other skills to the table that I have gained through my extra-curricular activities. Growing up, I lived in Russia, India and Ghana, where I attended an international school. Exposure to a number of cultures has helped me develop into a global citizen and be a strong teammate cognizant of the group dynamic created by a team of diverse personalities.

I am also an avid environmentalist, having done several individual and team projects on increasing environmental awareness over the years. I am now part of a research team working to improve the efficiency of solar panels in order to increase their use in society.

Working as a Resident Advisor and as a Teaching Assistant have taught me soft skills such as communication, leadership, conflict management, interpersonal skills, etc., that help me be a valuable team player in many fields.

Furthermore, my interest and experience in a wide array of fields such as sports, theater and music gives me a well-rounded personality, as well as the ability to get along with people easily, because I am able to find something in common with most people.

I believe I have the skills to be a valuable asset to a team in the fields I am interested in working in. My resume provides additional details about my background. I hope to hear from you soon to further discuss my qualifications. Thank you for your consideration.

Sincerely,  
Nishant Roy