

GITESH AGARWAL

✉ gagarwa@outlook.com
in linkedin.com/in/gagarwa
gagarwa.github.io

7021 Ashley Rose Dr. 🏠
Cary, NC 27519
(919) 651-4709 📞

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Hello,

I am a computer science student at NC State University. I am currently searching for an entry level position in computer science. My primary experience is in Java and network programming, while I am very interested to work in other sub-fields. I am sure to qualify for all requirements for any entry level position you may offer, as you can see below.

From 2013 to 2015, during two co-op terms with the OCUDR (Oracle Communications User Data Repository) development team at Oracle, I designed and developed a SOAP/REST provisioning client, J-SRC, to test the usability and efficiency of the product. One of the primary purposes of the client was to determine the product's maximum rate of request handling. In applying this tool, I also learned how to create virtual servers. In addition to this tool, I designed and developed a PCAP reader and analyzer for identifying network and request errors in PCAP files containing OCUDR network traffic. Designing this tool provided me with the opportunity to study the underlying layers of network communication, including the IP, TCP, and HTTP protocols. During my time at Oracle, I learned and applied tools for working in a professional development environment, such as debugging and a centralized repository for code management. I also learned about the importance of team communication – not only at the professional level, but personally as well.

In university, I worked with other students to develop programs. In physics laboratory classes, I was exposed to Python, a functional programming language. As a group, we used it to create physical models of the solar system, springs, and light interference. In an operating systems course, I learned about the functionality of the Linux tool chain. As a class, we explored managing threads and processes, scheduling tasks, networking between processes and threads, encryption, and more. In C, I engaged in debugging with gdb, and memory management with valgrind. I know what it takes to work together efficiently from these experiences, and how it affects the design and final implementation of the program. My goal is to be able to present high quality code that meets all parameters and is resistant to breaking and hacking.

I look forward to speaking with you in person to further discuss how I can benefit your company. I am available for any questions, or an interview, at your convenience. Please feel free to contact me by phone at (919) 651-4709 or by email at gagarwa@ncsu.edu. I appreciate your time in this matter.

Sincerely,

Gitesh Agarwal