

# Gurpreeth Singh

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<b>OBJECTIVE</b>	Seeking an internship for the Summer of 2020		
<b>EDUCATION</b>	<i>Bachelor of Science in Computer Science</i> , GPA: 3.74 Stony Brook University, Stony Brook, NY		Expected May 2021
<b>COMPUTER SKILLS</b>	<i>Languages:</i> Java, SQL, Python, C, Javascript <i>Other:</i> MacOS, Windows, Github, MySQL		
<b>RELATIVE COURSES</b>	Object-Oriented Programming, Data Structures, Foundations of Computer Science, Application Design, System Fundamentals, Principles of Database Systems, Analysis of Algorithms		
<b>EXPERIENCE</b>	<i>KidOYO Certified Mentor</i> Feb - Aug 2019 Internship where we helped kids learn how to code <ul style="list-style-type: none"><li>• Taught children coding during the summer session in person and graded their work</li><li>• Created coding projects in Python, Java, SQL, and Firebase for students to complete</li><li>• Designed a course that teaches students about the different types of data structures</li><li>• Judge at Hackathons where I reviewed submissions for different coding challenges</li></ul> <i>Structure Tone Intern</i> Feb - Apr 2016 Internship about engineering plans and their costs <ul style="list-style-type: none"><li>• Estimated costs of structures by looking at their engineering and architecture plans</li><li>• Visited construction sites in NYC to view how structures are made based on the plans</li><li>• Worked in a team as the group leader to design a presentation on cost estimations</li></ul>		
<b>PROJECTS</b>	<i>eCommerce Website/Database</i> Mar - May 2019 Website and Database for eCommerce using Flask and SQL <ul style="list-style-type: none"><li>• Transactions on the website update all appropriate tables in the database</li><li>• Created different views for employees and customers with appropriate functions</li><li>• Employees can add/edit/remove inventory items, view all past customer orders, remove reviews, add/edit/remove discounts, accept/deny returns, and more</li><li>• Customers can add items to their shopping cart/wish list, review and return items, change their personal information, view their past orders, and more</li></ul> <i>Dynamic Memory Allocator</i> Oct - Nov 2019 Created a malloc, free, and realloc function in C on Linux <ul style="list-style-type: none"><li>• Each allocated block has a header, footer, and padding for memory alignment</li><li>• Used segregated free lists to hold all free blocks to easily find them for allocating</li><li>• Reallocating a block to a smaller block splits that block if there are no splinters</li><li>• If possible, free blocks are coalesced to help prevent external fragmentation</li></ul> <i>Windows/MacOS 2D-Game</i> July - Sep 2018 2-dimensional survival game created using Java and CSS <ul style="list-style-type: none"><li>• Created levels with multiple enemies with animations using inheritance</li><li>• Designed a shop area where users can buy different upgrades for the player</li><li>• Allowed users to be able to change key controls of the game, like movement</li><li>• Game contains a score, coin, health, and a shield system for the player</li></ul>		
<b>INTERESTS</b>	Soccer, Chess, Games, Martial Arts, Geography		