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## GARRISON T. SHEPARD

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### EDUCATION

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<b>New York, NY</b>	<b>City University of New York Hunter</b>	<b>Fall 2015 - Present</b>
<ul style="list-style-type: none"><li>• B.A in Computer Science, Summer 2019. GPA: 3.04</li><li>• Undergraduate Coursework: Cloud Computing; Functional Programming; Databases; Computational Theory; Operating Systems; Android Development; Algorithms and Data Structures; Comp Arch. I &amp; II</li></ul>		

### TECHNICAL EXPERIENCE

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<b>Schoolify</b>	<b>JavaScript/React.js/Python/Flask</b>	<b>Spring 2019</b>
<ul style="list-style-type: none"><li>• Designed and created UI that is populated from multiple data sources using React.js.</li><li>• Defined an RESTful API interface with endpoints that map to CRUD operations for a relational data store using the flask web framework with JSON as an open standard response format.</li><li>• Designed, implemented, and tested a relational database schema using PostgreSQL.</li></ul>		
<b>Operating System Simulation</b>	<b>Python</b>	<b>Fall 2018</b>
<ul style="list-style-type: none"><li>• Built 13 user driven shell style operating system commands with input parameters.</li><li>• Implemented a classical paging memory management scheme for the system simulation.</li><li>• Created an algorithm to find and kill any process in the system simulation based on a process ID.</li></ul>		
<b>Restriction Enzyme Database</b>	<b>C++</b>	<b>Spring 2016</b>
<ul style="list-style-type: none"><li>• Engineered a parser for a real world data set with 700+ lines of data.</li><li>• Implemented an AVL tree with lazy deletion for efficient restriction enzyme lookup result was <math>O(\log n)</math> query time; look up feature was tested against a data set containing 400 lines of DNA sequences.</li><li>• Created a recognition site detection algorithm which indicates where the DNA sequence was cut (the recognition site) by a restriction enzyme.</li></ul>		
<b>Sudoku Solver</b>	<b>C++</b>	<b>Fall 2016</b>
<ul style="list-style-type: none"><li>• Engineered a backtracking algorithm that uses a stack to test board possibilities; is functional for game boards that require less than 10,000 backtracks to solve the puzzle.</li><li>• Built a Sudoku game board parser that reads in boards from a text file.</li><li>• Created an empty board space detection algorithm to help determine the next move in the game.</li></ul>		

### ADDITIONAL EXPERIENCES

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<b>Resident Advisor</b>	<b>St. George Residence Hall EHS</b>	<b>March 2017 - Present</b>
<ul style="list-style-type: none"><li>• Supported a community of 1500 students; ran administrative desk; first responder to 20 crisis situations; held 30 events with average attendance of 15 students; appointed recognition coordinator for staff.</li></ul>		
<b>Computer Science Club</b>	<b>Co-Founder &amp; President</b>	<b>Fall 2016 - Spring 2018</b>
<ul style="list-style-type: none"><li>• Planned, orchestrated, and hosted a variety of a workshops on topics such as, git, hackathons, tech interviews, iOS, and Android with an average attendance of 15 – 20 Students.</li></ul>		

### TECHNICAL EMPLOYMENT

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<b>Seasonal IT Infrastructure Intern</b>	<b>NYCM Insurance</b>	<b>Summer 2013 - Jan 2016</b>
<ul style="list-style-type: none"><li>• Built and provided base configuration for 30+ production environment servers on a VMware ESXi platform via VMware V-center.</li><li>• Led RSA two-factor authentication project in which RSA security software was installed on 40+ machines to work in conjunction with RSA token generators.</li><li>• Led 10+ routine business meetings on server pruning project (removing 50+ outdated and unused servers that pose as a security threat).</li></ul>		

### LANGUAGES AND TECHNOLOGIES

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- Python; JavaScript; C++; SQL; React.js; Flask; pyscopg2; git;