

55 Clark St, Apt 942
Brooklyn, NY 11201

GARRISON T. SHEPARD

(929) 285-9754
shepard.garrison.t@gmail.com
<https://github.com/gtshepard>

TECHNICAL EXPERIENCE

Notepad iOS App	Swift	Summer 2018
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- Architected and implemented a notepad iOS application with a streamlined UI from the ground up.
- Improved UX of application by implementing an auto save mechanism to persist data locally via the CoreData framework in a multi-threaded environment.
- Override the implementation of loosely coupled protocols (delegates) to add custom functionality to views in UIKit, specifically Table Views and Text Views

Operating System Simulation	C++	Fall 2017
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- Engineered and constructed a user driven OS simulation with over 10 system commands.
- Simulated single processor environment using preemptive priority scheduling with ability to create, kill, view, and schedule simulated processes for CPU use and I/O.
- Implemented a generic scheduling class that offered flexible scheduling via inheritance

Shortest Path Calculator	C++	Spring 2017
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- Planned and implemented a Shortest Path Calculator which finds the shortest path and displays the vertices and metrics along the path for a given graph. The graph is constructed from a special text file.
- Designed and implemented connected vertices detection feature.
- Uses Dijkstra Algorithm to compute shortest path.

Sudoku Solver	C++	Fall 2016
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- Architected a Sudoku Solver program that receives a special text file that represents a Sudoku board and outputs a solved Sudoku puzzle.
- Created an empty board space detection algorithm to help determine the next move.
- 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.

EDUCATION

New York, NY	City University of New York Hunter	Fall 2015 - Present
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- B.A in Computer Science, Summer 2019. GPA: 2.96
- Undergraduate Coursework: Operating Systems; Databases; Algorithms and Data Structures I-III; Computational Theory; Comp. Architecture; Android Application Development.

ADDITIONAL EXPERIENCES

Resident Advisor (Full Time)	St. George Residence Hall EHS	March 2017 - Present
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- Supported a community of 1500 students, routinely worked an administrative desk, first responder to over 15 crisis situations, held over 20 events with average attendance of 15 students, appointed recognition coordinator for student life staff.

Computer Science Club	Co-Founder & President	Fall 2016 - Spring 2018
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- Planned, Orchestrated, and hosted a variety of workshops on topics such as, git, hackathons, interviews, iOS, and Android with an average attendance of 15 – 20 Students.

EMPLOYMENT

Seasonal IT Infrastructure Intern	NYCM Insurance	Summer 2013 - Jan 2016
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- Built and provided base configuration for 30+ production environment servers on a VMware ESXi platform via VMware V-center.
- Led RSA two-factor authentication project in which RSA security software was installed on 40+ machines to work in conjunction with RSA token generators.
- Led 10+ routine business meetings on server pruning project (removing 50+ outdated and unused servers that pose as a security threat).

LANGUAGES AND TECHNOLOGIES

- C++(Fluent); Swift(Proficient); Java(previous experience); Xcode;