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EDUCATION

New Brunswick, NJ	Rutgers University	Expected May 2021
<ul style="list-style-type: none">B.S. in Computer Science, Expected May 2021. GPA: 3.74.Current Coursework: Software Methodology, Computational Algorithms, Principles of Programming LanguagesUndergraduate Coursework: Data Structures, Information & Databases, Systems Programming, Computer Architecture, Discrete Structures I & II, Physics I & II, Calculus I & II, Linear Algebra		

EMPLOYMENT

Learning Assistant	Rutgers University	September 2019 – September 2020
<ul style="list-style-type: none">Lead recitation classrooms for the introductory computer science course at Rutgers University – New Brunswick.Teach the programming language of Java to multiple classrooms of 18-20 undergraduate students.Reinforce knowledge on different concepts such as object-oriented programming, recursion, big O, sorting, loops, etc.Plan recitations and develop lesson plans as well as communicate with course professors and department staff.		
Physics Lab Assistant	Rutgers University	January 2020 – May 2020
<ul style="list-style-type: none">Operate multiple Rutgers Physics 205 Labs complimenting Rutgers' Physics I course comprising of students with different majors and backgrounds.Maintain and fix lab equipment and computer hardware to ensure consistent technological performance.Supervise students performing labs and aiding in understanding difficult concepts while adhering to lab protocols.		
Calculus Study Group Leader	Rutgers University	September– December 2019
<ul style="list-style-type: none">Managed a study group containing 18 undergraduate students, providing assistance for any difficulties and questions with the Rutgers calculus 1 course material.Stayed in close communication with the lead mathematics academic coach, creating lesson plans and developing essential study techniques for students to use.		
Lead Tutor	Rutgers Plangere Writing Center	September 2018 - May 2019
<ul style="list-style-type: none">Guided undergraduate students to facilitate their writing process and strengthen their higher order thinking skills in the highly accredited Rutgers Writing Program while assisting other tutors in times of difficulty.		

TECHNICAL EXPERIENCE

Projects

- Railway Booking System (2020) – JavaScript, Java, HTML/CSS, MySQL, AWS**
Designed and implemented a relational database system to support the operations of an online railway booking system allowing users to browse database contents and query for available train schedules for a given date and time.
- 'Where's the File' Version Control System (2020) – C**
Developed a Git-like version control system using C sockets and threads to enable multiple users to work on a single set of source code even in physically separate locations by making sure everyone is working on the same version.
- Wallet Simulator (2020) – Java**
Simulated a wallet/budget spreadsheet, allowing users to create a spreadsheet from scratch or upload their own via txt file and provides a set of functions for users to input new data as well as different printing and sorting options.
- Coronavirus Tracker (2020) – Java Spring Boot, Thymeleaf, Bootstrap**
Displays U.S. coronavirus (COVID-19) data and statistics fetched from Johns Hopkins University's CSSE including total confirmed cases, active cases, and daily increase.
- Hexadoku (2019) – C**
Created a program that solves 16x16 sudoku puzzles containing hexadecimal numbers between from 0 to F using a backtracking algorithm that guesses a random number on an empty cell and recurses back if the guess is wrong.
- DOM Tree (2019) – Java, HTML**
Developed a program that alters Document Object Models of HTML documents to add, remove, bold, and replace tags within the document based on the user input as well as representing the DOM as a tree.

LANGUAGES AND TECHNOLOGIES

Languages: Java, C, Python, JavaScript

Technologies: Git, CSS, HTML, Bootstrap, jQuery, Spring Boot, MySQL, JSP, AWS, Linux OS, Postman, Eclipse, Vim, Atom