

## EDUCATION

New Brunswick, NJ	Rutgers University	Expected May 2021
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- B.S. in Computer Science, Expected May 2021. GPA: 3.73.
- Current Coursework: Software Engineering, Internet Technology, Linear Optimization
- Undergraduate Coursework: Data Structures, Information & Databases, Systems Programming, Computer Architecture, Software Methodology, Computational Algorithms, Principles of Programming Languages

## Projects

- **Chess Android Application** (2020) – *Java, Android Studio*  
Developed an Android Application to implement the game of Chess for two players with functionalities to support all the rules of the game as well as including features for recording games and game playback.
- **Moviefy** (2020) – *Java, JavaFX, FXML, Scene Builder*  
Created a single-user movie cataloging desktop application providing users with features such as rating and listing movies in default or custom-made libraries, and browsing movies to view various movie details.
- **'Where's the File' Version Control System** (2020) – *C*  
Developed a GitHub-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 ensuring all users are working on the same version.
- **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.
- **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.

## EMPLOYMENT

Teaching Assistant	Rutgers University	September 2019 – September 2020
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- Lead recitation classrooms for the introductory computer science course at Rutgers University – New Brunswick.
- Taught the programming language of Java to multiple classrooms of 18-20 undergraduate students.
- Reinforced knowledge on various concepts such as object-oriented programming, recursion, big O, sorting, loops, etc.
- Communicated with course professor and department staff to plan recitations and develop lesson plans.

Physics Lab Assistant	Rutgers University	January 2020 – May 2020
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- Operated multiple Rutgers Physics 205 Labs complimenting Rutgers' Physics I course comprising of students with different majors and backgrounds.
- Maintained and fixed lab equipment and computer hardware to ensure consistent technological performance.
- Supervised students performing labs and aided in understanding difficult concepts while adhering to lab protocols.

Calculus Study Group Leader	Rutgers University	September– December 2019
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- 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
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- 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.
- Provided assistance to other tutors in times of difficulty with students and lead tutors to become self-sufficient.

## SKILLS

- **Languages** – C, Java, JavaScript, HTML/CSS, Python, OCaml, Scheme, SQL
- **Technologies** – Android Studio, AWS, Bootstrap, Git, JavaFX, Java Server Pages, Java Spring Boot, JIRA, jQuery, MySQL, Node.js, React.js, Windows/Linux OS
- **Miscellaneous** – Agile Methodologies, Functional Programming, Object Oriented Programming