

# Yaakov Baker

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## EDUCATION

**Yeshiva College, Yeshiva University**, New York, NY

Expected Graduation: May 2024

**Bachelor of Science in Computer Science**, specializing in Distributed Systems

**Cumulative GPA: 3.75**

**Relevant Coursework:** Intro to Computer Science, Calculus I, Data Structures, Mathematics in Computer Science, Linear Algebra, Principles of Economics, Computer Organization & Assembly Language Programming, Intro to Algorithms

**Extracurricular Activities:** HackerRank Club, Member; YU's ACM Chapter, Member; Engineering Club, Member

**Study Abroad:** S. Daniel Abraham Israel Program, Jerusalem

September 2019 - May 2020

## TECHNICAL SKILLS

- Proficient: Java, Python, Git, GitHub, Maven, Junit
- Intermediate: HTML/CSS, C, JavaScript, Cryptography
- Familiar: AJAX, jQuery, SQL
- Novice: PHP

## PROJECTS

<https://github.com/YaakovBaker/Projects.git>

- **Array-Based Spreadsheet:**
  - Built in Java, the spreadsheet is constructed by passing in arguments into the *CellSpreadSheet* constructor specifying the row and column size. Afterwards the client can call methods to populate the spreadsheet and print it out in CSV format with either formulas shown or calculated.
- **Command Line Rock, Paper, Scissors:**
  - Built in Java, this program takes user inputs and plays out a game of rock, paper, scissors with my program and after a specified, by the user, number of wins the game ends with a winner or loser message.
- **Doom Video Game Simulation:**
  - Built in Java, the final project for Intro to CS was my favorite assignment from intro. Given a player, we had to simulate their journey through a set of rooms and monsters within those rooms. Dealing and taking damage and collecting items as rewards for room clears. This simulation could be performed with multiple players.
- **Document Storage System:**
  - Built a Document Storage System with Java in Data Structures. It utilized various Data Structures we learned about in that course: Trie (searching by word or prefix for a document), Stack (undo actions like deletes and puts), Heap (last use time of the document), BTree (storage of documents in memory or on disk depending on last use time).

## WORK EXPERIENCE

**The Home Depot**, Cashier, Norwood, MA

June - August 2021

- Managed the cash wrap, promoted the store's credit card and assisted customers with exchanges.
- Assisted customers with their shopping experience and safeguard against shoplifting.

**Needham Florist**, Clerk, Needham, MA

May - August 2019

- Assisted with deliveries and cleaned up the shop including organizing storage areas.

**Borderland State Park**, Intern, Easton, MA

December 2018 - March 2019

- Worked with Park Rangers in ensuring the visitor center, Ames mansion, and the state park were presentable, clean and safe for visitors.
- Transcribed and archived the diaries of the historic estate's original owner, Oakes Ames, to aid a researcher in digitizing and preserving those diaries.