

# Gamal Amin

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## EDUCATION

**Hunter College of The City University of New York**

*Bachelor of Arts in Computer Science*

*Minor in Political Science*

*Minor in Economics*

**Programming Skills:** Java, Python, HTML, CSS, C++, JavaScript

**GPA:** 3.6 (Dean's List)

**New York, New York**

Expected: May 2020

## SUMMARY

I am looking for an internship to enhance my skills in coding and to better myself and others as well. I am passionate about coding and more than willing to learn and grow.

## COURSES

Java programming, projects, abstract data types, networking, security, iteration, etc.

Discrete structures, logic, trees, recurrence relations, induction, recursion, etc.

Algorithms, digital systems, boolean algebra, digital circuits, memory devices, logic gates, etc.

Data structures, order notation, time-space analysis, tree and graph algorithms etc.

Computer organization, hardware, abstraction, performance evaluation, memory hierarchy, etc.

## PROJECTS

### Codenames Game (Java)

**Spring 2018**

- Created a virtual version of a physical board game incorporating data structures
- Tested for various physics including friendly fire, etc.
- Created a communication API to allow intercommunication between users
- Emphasis placed on creating the GUI

### Music Algorithm (Java)

**Fall 2017**

- Created a music algorithm that automatically generates a custom playlist for users
- Allows users to rate songs and compares it to other users, automatically updating playlists to fit their personal preference
- Allows searching for songs based on parameters including artist, highest and lowest rating, title, and Youtube URL strings
- Uses principles of Bayesian Average to generate playlists, considering time (prioritizing recent ratings), risk (prioritizing songs with multiple ratings), and prior beliefs (prioritizing known artists over unknown)

### Barn Yard Simulation (Java)

**Spring 2017**

- Created a program in Java which simulates behavior of domesticated farm animals
- Allows user to create various farms complete with food, intermixing of animals, and weather to test the ideal environment for livestock
- Written code to allow automatic motion for virtual animals, including flying and jumping, and debugged to produce desired code

## WORK EXPERIENCE

### Global Kids

**Staten Island, New York**

*Intern*

March 2016 – June 2016

- Researched Global issues such as first world poverty and devised solutions
- Developed gardening techniques and utilized technologies to meet the nutritional needs of people in Affordable Housing, lowering food costs
- Established cooperation between co-workers and devised strategies to increase efficiency
- Featured by name on mainstream local news and other media, personally commended by State Senator Diane Savino at Award Ceremony

### Citizens' Committee for Children

**New York, New York**

*Research Intern*

October 2016 – December 2016

- Worked for non-profit advocacy organization headquartered on Wall Street
- Researched homelessness in New York City and collaborated with colleagues to devise solutions to mitigate youth homelessness
- Interviewed Representatives at various homeless Hostels around New York City to learn about problems that occur such as low funding and a dearth of beds in able to devise legislature
- Introduced and lobbied legislature directly to New York City Councilman Richie Torres
- Commended at graduation ceremony by leaders of non-profit organizations, presented with a certificate

## VOLUNTEER EXPERIENCE

### Elementary School Math Tutor

**Staten Island, New York**

*Volunteer*

September 2012 – June 2017

- Tutored low-income children in mathematics and basic algebra.
- Taught them necessary formulas and tools to help them in their future math classes.

## SKILLS & ACTIVITIES

**Activities:** Association of Computing Machinery, Outdoor Adventure Club, Undergraduate Student Government, etc.

**Awards:** Permanent Community Service Honor Roll, International Baccalaureate Program Diploma, National Honor Society, CCC Youth Action Leadership Award, Global Kids Community Service Award, Tennis Medal