

CARTER ROSTRON

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EDUCATION

B.S., Computer Science, Haverford College, 3.957 Major GPA

Expected 2027

Relevant Coursework: Analysis of Algorithms, Data Science, Data Structures, Principles in Systems of Computing, Concurrency and Co-Design, and Discrete Mathematics.

SKILLS

Programming Languages Python, C/C++, Java

Tools Git, Linux

Libraries NumPy, Matplotlib, SLiM, Pandas

EXPERIENCE

Undergraduate Researcher

Haverford College, University of Pennsylvania

2025

Haverford, PA

- Conducted machine learning research on mosquito data in Prof. Sara Mathieson's computational biology lab.
- Developed software in Python and Bash for applying the MapNN neural network and SLiM evolutionary simulations, improving predictions about malaria vector mosquito populations in Africa.
- Collaborated across institutions with researchers at Haverford College, the University of Pennsylvania, and the University of Colorado Boulder.

Guest Experience Specialist

The Escape Game

June 2024 - Present

Kansas City, MO

- Assisted guests with bookings and purchases while delivering quality customer service.
- Managed store spreadsheets and coordinated with various internal teams.
- Developed communication, team work, and problem solving skills in a fast-paced workplace.

PROJECTS

Two-Player Mancala Game — Developed an interactive Python implementation of the ancient game, supporting two human players and incorporating logic for moving, scoring, and special rules like capturing.

Two-Player Stratego Game - Built a Java version of the board game as an exercise in object-oriented programming, enabling board setup and competitive, turn-based gameplay.

C/C++ Hashmap and BigInt — Designed and implemented a custom BigInt class to store exponentially large integers and a home-made Hashmap class with all standard methods using only C-style methods and notation.

EXTRACURRICULAR ACTIVITIES

- Member of **Havercode**, the Haverford College Computer Science Club, participating in career and technical workshops.
- Player on **Big Donkey Ultimate**, Haverford's men's club ultimate frisbee team, which competes in tournaments around the region.
- Writer, director, and performer with Haverford and Bryn Mawr's **Lighted Fools**, an improv and sketch comedy group producing multiple original shows each semester for audiences of 100+ students.

LEADERSHIP

- Group leader at **Over The Rainbow Summer Camp** (2021-2023), leading groups of children aged 5–13 in academic workshops and field trips while developing leadership, accountability, and conflict resolution skills.