Ahmed Mustapha

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EDUCATION

PRINCETON UNIVERSITY   Princeton, NJ(Expected Graduation: May 2026)

Concentration: Bachelor of Science in Engineering - Mechanical and Aerospace Engineering
Certificate: Computer Science
Relevant Coursework: Intro to CS, Data Structures and Algorithms(Spring 2024)
Extracurricular: NSBE, Scholars Institute Fellows Program, Princeton Rocketry Club, Princeton AI Club

WORK EXPERIENCE

PRINCETON UNIVERSITY   **Princeton, NJ**
Quantitative Research Intern - Social Media Analysis and Natural Language Processing Jun 2023 – Aug 2023
- Collaborated with 10 interns, conducted statistical analysis on social media data to identify patterns and correlations, using NLP for sentiment analysis on abortion, climate change, and drug legalization.
- Utilized statistical models and techniques to extract meaningful insights, presenting research findings with visually appealing Tableau data visualizations.

PRINCETON UNIVERSITY   **Princeton, NJ**
Campus Dining Student Manager - Forbes   *Feb 2023 – present*
- Collected data from 500 Forbes Residential College students to assess food preferences and create a tailored dining timetable.
- Ensured a sanitized kitchen and dining hall environment for optimal food service and dining experiences.

TECHNICAL PROJECTS

GUI QUIZZLER https://rb.gy/8b6mh   Jun 2023
- Developed an interactive True or False quiz web app using Python and Tkinter.
- Features diverse questions from an API and an intuitive user interface with instant feedback.
- Has a score tracking system for player motivation and celebration upon quiz completion.

PING PONG GAME https://rb.gy/l3fvn   Feb 2023
- Developed a Python-based recreation of the classic arcade game Pong for two players.
- Features a visually appealing 800x600 game window, paddle controls, ball movement, scoring mechanism, and game over conditions for an immersive gameplay experience.

SNAKE GAME https://rb.gy/zgllp   Feb 2023
- Created a Python-based Snake game employing the Turtle module.
- Showcases player-controlled snake movement, food consumption for points, collision avoidance, three encapsulated classes, and high score tracking through a text file.

PASSWORD MANAGER APP https://rb.gy/6qbbm   Mar 2023
- Developed a secure Password Manager application using Python and Tkinter library.
- Enables users to store and manage passwords for various websites and services conveniently.
- Features labeled entry fields for website, email/username, and password, offering essential functionalities like password saving, retrieval, and an integrated password generator for enhanced data security.

ADDITIONAL INFORMATION

Technical Skills: Python | Java | MySQL | MongoDB | HTML | CSS | JavaScript | Flask | Git
Interests: Big Data | Machine Learning | Artificial Intelligence | Web Development | Cyber Security | Aerospace   **Languages:** English, Arabic(limited proficiency), Hausa, Moore, Twi