Tameem Asif

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EDUCATION

Columbia University **New York City, NY, USA**
Bachelor of Science in Computer Engineering Expected Graduation: May 2024

- **GPA:** 3.79 / 4.0
- **Major:** Computer Engineering; **Minor:** Sustainable Engineering
- **Relevant Coursework:** Data Structures and Algorithms, Advanced Programming, Malware Analysis and Reverse Engineering
- **Honors:** Recipient of the highly selective Gates Scholarship, targeted to low-income minorities; Eagle Scout (highest rank for a Boy Scout of America)

SKILLS

Programming Languages: C, Java, Python, C#, JavaScript, MIPS Assembly Language
Software Tools/Frameworks: Nodejs, Expressjs, Apache2, Git/GitHub, Linux, Bash, MongoDB

PROJECTS

CUFR Parts Ordering Website (WIP)

- Developed a full stack web application using Nodejs and Expressjs for backend, HTML/CSS for frontend, and a MongoDB database to facilitate the parts ordering process for CUFR.
- Improves efficiency by an estimated 15-20% due to faster entry and better data visualization as opposed to an Excel sheet.

HTTP Web Server

- Programmed an HTTP web server in C that is capable of serving static contents such as HTML, stylesheets, images, and fonts in a secure manner.
- Implemented a 3-tier architecture that allows the web server to serve dynamic contents by communicating with a separate database server.

Dark Moon Game

- Coordinated a team of 3 people to design and build an 80s style arcade game based on Lunar Lander using the Unity3D Game Development Engine.
- Sourced and implemented sound effects and visual animations that were crucial to the playability of the game using C# and the Unity SDK.

WORK & LEADERSHIP EXPERIENCE

Columbia University Robotics Club (CURC) **New York City, NY**
Vice President and Controls Subteam Member May 2022 - Present

- Programmed a Robot Operating System (ROS) node using Python for an autonomous vehicle to interface a VESC motor controller that implements teleop functionality.
- Developed a ROS node with a team of 5 people that takes in desired RPM and steering angle and sends the proper current to the VESC motor controller.

Columbia University Formula Racing (CUFR) **New York City, NY**
Tractive System Lead May 2022 - Present

- Manufactured and assembled battery segment casings using a waterjet for the battery pack and accumulator of the electric vehicle (EV).
- Designed and built a safety circuit that turns off the EV car's inverter in case the cooling system malfunctions.