Adyan Chowdhury

Honors Student at Temple University's College of Science and Technology

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Education

Temple University   August 2023 – May 2027
Bachelor of Science in Computer Science   *Philadelphia, PA*

GPA: 3.76/4.00 | **Awards**: Dean's List (Fall of 2023)

Notable Coursework: Computer Programming in C, Mathematical Concepts in Computing I, Honors Program Design and Abstraction, Data Structures, Calculus I, Honors Calculus II, Honors Calculus III,

Activities and Societies: Honors Program, Association for Computing Machinery (ACM), TUDev, Temple Robotics, Google Developer Student Club (GDSC), Temple Data Science Community (TDSC)

Experience

Temple University Human-Computer Interaction (HCI) Lab   May 2024 – Present
Research Lead   *Philadelphia, PA*
- Worked directly with Professor Stephen MacNeil on research into Pervasive Computing within a team of four researchers
- Analyzed over **500 short-form computing videos** with Python scripts and JSON parsers, achieving 65% inter-rater reliability among three research assistants, and created **six Vega-Altair data visualizations** to present the findings

Association for Computing Machinery (ACM)   April 2024 – Present
President   *Philadelphia, PA*
- Plan and coordinate social events, workshops, and presentations for **200+ tech students** in the field of Computer Science related topics and discussions
- Lead an executive board consisting of eight student leaders

Temple University's OwlHacks 2024 Committee   February 2024 – Present
Logistics Division Coordinator   *Philadelphia, PA*
- Facilitating a Hackathon **sponsored by 20+ companies** with over **250+ attendees** during the fall semester
- Developed engaging workshops in software development for eager and prospective students
- Lead coordinator in developing a 5 day "mini-hackathon" named OwletHacks during the spring semester

Projects

JIM Virtual Gym Assistant | Python, Flask, Javascript, React.js, TensorFlow, Pandas   April 2024
Project Link: https://github.com/adyan1025/jim
- Developed an AI-powered virtual gym assistant web app, enabling workouts with **live movement analysis**
- Integrated Google Gemini into the web-app's interface, offering dynamic feedback on users' bicep curl form leveraging TensorFlow's real-time calculations
- Trained **custom machine learning models** using Pandas to differentiate between ideal and suboptimal plank forms, enhancing workout effectiveness and safety

City Simulation | Java, Spring, Javascript, HTML/CSS, Three.js, Blender, Heroku   April 2024
Project Link: https://github.com/adyan1025/city-sim
- Developed an idle game within a four-person team where users generate revenue through strategic investments, overseeing implementation and core mechanics as **designated lead developer**
- Designed and implemented a responsive website integrated with Java Spring, featuring visually engaging graphics powered by Three.js
- Deployed project into production on Heroku's cloud service after exhaustive testing and debugging

Skills

Programming Languages: Java, C, Python, HTML/CSS, JavaScript, SQL
Tools & Frameworks: Git, Godot, React, MySQL, Java Spring, Jupyter Notebook, Flask, IntelliJ, Vega-Altair, Pandas
Miscellaneous: Arduino, Microsoft Excel, LaTeX, Google Sheets