

Tushar Asthana

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EDUCATION

University of Vermont | Bachelor of Science in Computer Science

May 2024

- Enrolled in College of Engineering and Mathematics
- Classes completed: Intro to Website Dev, Intro to Python, Intermediate Programming: Java,, Basics of Data Science, Computer Organization, Data Structures & Algorithms, Computability & Complexity, Evolutionary Robotics, Data Privacy
- *Member:* Asian Student Union, Black Student Union, Club Tennis. *Published Writer:* 5x at The Vermont Cynic

SKILLS & PROFICIENCIES

AWS | MySQL | Java | Linux | Python | C ++ | React.JS | Flutter | Firebase | AutoCad | Mathematica | GitHub | HTML5 | CSS | Unix

PROFESSIONAL EXPERIENCE

Verso-Orca UVM Team Lead - Part-Time | Burlington, Vermont

- Creating the Interactive Management Web Application from start to finish to produce a flow diagram that helps a group of people solve a collective problem. Using flask to create a front end, python and sql to create a backend, while managing a team to implement all goals and issues set.
- Creating an algorithm that will then determine which factors should be addressed first, second, and so on in order for the group to meet their goals, and be used for application in Open Source communities in Africa.

IXperience Business Developer · Part-time | Cape Town, South Africa (Remote)

Jan 2023 - April 2023

- Selected as 1 of 10 in a group of 300+ students from this past summer program to represent IXperience's business development projects on the University of Vermont campus.
- Over 10 signups and 2000+ students reached for the '23 summer utilizing Google Suite, posters, cards, and in-person presentations to spread the word for IXperience's '23 summer programs. 15+ clubs reached with the 3 pending partnerships with IX.

Software Engineer - Intern Heden Coworking | Full time | Lisbon, Portugal

July 2022 - August 2022

- Developed a unique, custom-built meeting room booking system that integrates across the Heden app and website using Flutter.
- Worked with Heden's lead developer from conceptualization to rollout. Allowed Heden to increase efficiency for their members to book faster, cleaning up their website so it takes < 5 clicks in order to book
- Assigned numerical id's to all members of Heden, using Firebase to store back end data for management.

Software Engineer/Data Science Mining Intern - Apex146 | Burlington, Vermont (Remote)

March 2021- June 2021

- Implemented proposed solutions using development experience and integration knowledge on Amazon Web Services.
- Responsible for development, implementation and maintenance of the organization's NFT-based gaming website.

PROJECTS | [Youtube Presentations on Projects](#) |

Breakout Game

- <https://github.com/tasthana/Breakout-Game/tree/main>
- Working in C++ to create a base level Breakout game. Using OpenGL and GLFW for graphics rendering. Drawing shapes and handling user input, and keyboard input for controlling the paddle. Use of C++ classes for encapsulating game elements (Paddle, Ball, Brick). Interactive gameplay with multiple screens within the same graphics window.

Travel Website

- Using HTML to stand up a personalized travel website, listing my experiences abroad with pictures.
- Implementing CSS to customize the UI, with a working navigation bar and transitions on screen for user enjoyment.
- PHP used to integrate MySql database to record user form data, and managed through backend php files.

Pycharm Robot

- Wrote 1000+ lines of code to stand up a robot in PyCharm that is able to simulate walking in Earth's gravity.
- Created three different variants of the robot, from 4 legged, 6 legged, to 8 legged.
- Presented a final project and a written assignment analyzing the difference between variants using plots with the use of Numpy.

LEADERSHIP INVOLVEMENT

Junior Staff/Facilitator in Training - Volunteer Hugh O'Brian Youth Leadership | Vermont

2017 - Present

Leadership conference created to empower high school sophomores to dedicate themselves to leadership, innovation, and service.

- Recruited over 10 students personally over the course of the past 6 years to attend Hoby Seminar.
- Logistics planner for programming and team activities for a seminar with over 200 students.
- Actively engaged with and supported incoming seminar participants to positively influence their growth and provide long-term support for all community projects and personal leadership growth.