ISHAN BAWNE

BS-PHYSICS | Indian Institute of Technology, Kanpur

@ ishanb20@iitk.ac.in

ishanbawne20

J +91 7489497535

EDUCATION

Indian Institute of Technology, Kanpur

Undergraduate | BS PHY

CPI: 7.6/10

2020 - Present

▼ Kanpur, India

Kendriya Vidyalaya No.2 Raipur

XII, CBSE

Percentage: 93.6%

= 2020

Raipur, India

Kendriya Vidyalaya No.2 Raipur

X, CBSE

Percentage: 91.2%

2018

Raipur, India

WORK EXPERIENCE

Internship, CreativeFuel Pvt. Ltd.

Development and Automation August 2021 - September 2021

- The project was at the intersection of domains procedural generation, GLSL shaders, and automation.
- Modified an open source tool that can generate different types of animated planets in pixel art style.
- Made relevant changes in the project to increase the resolution of the exported gifs and write GLSL shaders to add more types of planets.
- Automated the whole process of variation of parameters and exported the planets in huge numbers on the conditions to the different types of planets while keeping a record of the kinds of planets and their specific parameters.

POSITIONS OF RESPONSIBILITY

Leader, Game Development Society

Science and Technology Council, IITK

May 2022-Present

- Organized and mentored three SnT Summer Projects 2022 for 25+ Students. Introduction to Graphics and Shaders, Introduction to Game Development, and Introduction to 3D Art and Rendering
- Conducted workshop on Programming Game Mechanics which provided hands on experience to participants about coding and thinking how game mechanics works.
- Conducted workshop on Procedural Generation in which participants were taught how they can write shaders in GLSL shading language. The participants were exposed to topics like Perlin noise and Graphics rendering,
- Submitted art-works to a weekly social media campaign "Render Monday", with a reach of 2.5K+, aimed to popularize digital artworks in the campus community.

Senior Member, Team Vision

Science and Technology Council, IITK

2022-Present

- Assisted the team heads in managing the team.
- Led recruitment of first-year students from a pool of 120+ entries into the team
- Mentoring junior team members to participate in prestigious robotics and autonomous navigation competitions.

Student Guide

Counselling Service, IITK

2021

- Guided and mentored 6 freshmen students in acclimatizing to the Environment of the Institute.
- Helped them with their academics by arranging meetings with their mentors and still maintain a good rapport with them.

Raipur, Chhattisgarh, India

PROJECTS

Advanced Game Development

Game Development Society IIT Kanpur (Studio Centauri) July 2021

- Submitted a playable game as a recruitment task made with Godot Engine.
- Brainstormed ideas for the final game project and then designed the game mechanics and other game design elements, finalized timeline for the remaining project duration.
- Implemented the game design and made a 3D shooter game using Unity Engine, working as programmer and game designer in a team of 5 members.

Cross Validated

Stamatics IIT Kanpur

June 2021

- Learned about fundamentals of statistics and algorithms like MLE and Derivative methods and exposed to techniques like Regression, Sampling, and Bayesian Inference.
- As an application, we were tasked to fit the Bernoulli distribution model to given data set using the Maximum Likelihood Estimator method and to predict results from the model.

Canteen Order Automation System

Course Project CS253

January - April 2022

- The project aimed to develop a central canteen automation system for all the canteens across the campus, through which we would be easing canteen management for canteen managers and ordering food, and keeping track of their expenses for students.
- Developed separate portals for canteen managers and students and an accounting system so students can pay all the canteen bills once a month.
- Developed the website with **Django Framework**, where I was tasked to build the website's backend.

Graphing Terminal

Self Project

July 202

- A tool that can plot any 2d parametric curve in a terminal using ASCII characters. The tool also allows users to navigate in coordinate space and perform operations like zoom, scale and translate using the command-line interface.
- Wrote the tool in the C programming language without any external libraries

Mentos Mookit

Self Project

September 2021

- Redesigned the User Interface of the website serving course material "Mookit" in dark mode and added additional features to the website like a drawing pad to scribble.
- Implemented the design and features by writing custom CSS and **Javascript** files and enforcing them using browser extensions.

SKILLS

C, C++, C#, Python, Javascript, GDScript, CSS, HTML

Git, Linux, Bash, LaTEX, Unity Engine, Godot

NodeJS, ExpressJS, React, Flask, Django, ROS

EXTRA CURRICULARS

- Represented Chhattisgarh State in the Sub Junior National Football Championship organised by All India Football Federation.
- Represented KVS Raipur Region in Regional and National Football Championships.
- Served as a scout and received RAJYAPURASKAR Award for social service.