

PRIYAL SINGH

Software Engineer

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🔗 <https://github.com/singhpriyal152>

INTERNSHIP

MITACS Research Intern, Dalhousie University

June 2022 – September 2022 (Nova Scotia , Canada)

📅 Applying Spatial Analysis to Enable Large-Scale Augmented Reality

- Worked in a three-member team led by supervisor Dr. Derek Rielly from Dalhousie University for the research and development of Story CreatAR.
- This project considers how spatial analysis techniques from architecture and socio-spatial theory from the social sciences can be applied to large scale virtual and augmented reality (AR/VR) experiences.
- Calculated real-time isovist/visibility in Story CreatAR and specified "visibility" rules.
- Analysed Room-scale and added rules to Story CreatAR.
- Added character navigation rule interface to Story CreatAR.

Research Paper Link

BetterButter

April 2021 – May 2021

📅 Web Development Intern

- Added a feature allowing the users to select between multiple languages.
- Added new features like search feature in saved recipes, reply feature in comments.
- Revamped two main screens and fixed bugs

SKILLS

PROGRAMMING

C/C++ , Python , Java , Unity 3D , Flask

SQL , CSharp , Computer Networking , MongoDB

Web Development , Javascript, React.js , TailwindCSS

MISCELLANEOUS

Git and Github , Data Structure and algorithm

Competitive Coding , Video editing , Regular Expressions

EDUCATION

Bachelor of Technology

University Of Lucknow

📅 August 2019 – August 2023

CGPA-8.7/10

ACHIEVEMENTS

- Was in top 50 in "Predict the Happiness" Hackerearth challenge
- Secured 1282 rank in Codechef Long Challenge among 30000+ participants.
- Participated in Stanford University's Code in Place and made a project on Python.

PERSONAL PROJECTS

Venutian Invaders

- Venutian Invaders is a shooting game that involves Spaceships and Aliens.
- It is made using pygame library of Python.
- Score increases when the Spaceship shoots the Aliens and gets deducted when the Spaceship shoots the Minispaceships and the game gets over when the Aliens come in contact with the Spaceship.
- When Minispaceships come in contact of the Aliens they get exploded and become inactive. There are different audios on different events.

GitHub Link

YouTube Link

Personal GPT

- Built with LangChain, GPT4All, LlamaCpp, Chroma and SentenceTransformers and Flask.
- Trained on specific data sets and fine-tuned to cater to the specific needs of an individual.
- This project streamlined document processing workflows, reducing manual effort by 70 percent and improving data accuracy.
- Upload documents of your choice like pdfs or word files.

GitHub Link

Quiz page

- It is responsive quiz page using timer! This uses JavaScript, CSS, HTML and Bootstrap
- It contains multiple working buttons like close, minimize, submit, previous, next, mark for review, play again, question button and clear.
- It shows your marks even if you click on submit before the time is up.

GitHub Link