

Ashish Pratap

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Richardson, TX
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EDUCATION

University of Texas at Dallas
Master of Science in Computer Science

Richardson, TX
Aug 2021 – Present

Guru Gobind Singh Indraprastha University
Bachelor of Technology in Computer Science and Engineering

Delhi, India
Aug 2016 – Sep 2020

TECHNICAL SKILLS

Languages : Python, C#, Java, R, SQL, HTML, CSS, JavaScript, C++

Frameworks : React.js, Express, Node.js

Libraries : NumPy, Pandas, Sci-kit Learn, Flask

Databases : MongoDB, MySQL

Others : Unity, Git, GitHub, Docker

EXPERIENCE

Software Engineer
Infosys Limited

Nov 2022 – Aug 2021
Pune, India

- Designed and developed full stack web applications with **React** and **Spring** frameworks for a US based cable television provider.

RESEARCH PROJECTS

MetaTwin
Supervisor: Dr. Jin Ryong Kim

Jan 2023 – Present
Multimodal Interaction Lab. UT Dallas

- Research and development of collaborative virtual workspaces with support for one-to-one spatio-temporal synchrony with physical spaces.

Ultra Edit Gestures
Supervisor: Dr. Jin Ryong Kim

Mar 2023 – May 2023
Multimodal Interaction Lab. UT Dallas

- Investigated dynamic hand gesture recognition for interactions in VR
- Trained an RNN model for gesture classification using hand tracking data from an IR Stereo camera.

Interaction of Tangibles with Touchscreens
Supervisor: Dr. Jin Ryong Kim

Aug 2022 – Dec 2022
Multimodal Interaction Lab. UT Dallas

- Research and development of Human interface devices which can be interacted using tangibles.
- Developed Linux driver for touchscreen controller in Pixel 5 running Android 12 to allow interaction using physical contact with tangibles.

PROJECTS

Base Blitz

Feb 2023 -- Present

- Designing an augmented reality (AR) multiplayer game in which players collaborate to attack an enemy base.
- Technologies Used: Unity, C#, ARCore

Bed and Breakfast Web App

Aug 2022 -- Dec 2022

- Developed a full stack web app for online property management (bed and breakfast) where users can add, update, search and rate various property listings on the portal.
- Technologies Used: Node.JS, React, Express.JS, MongoDB, Bootstrap [[GitHub](#)]

Evaluation of Accessibility based on Pharmacy Location and Population Density

Feb 2022 -- May 2022

- Analyzed pharmacy density, disease prevalence among age groups, different racial groups, regions to determine if there existed any correlation between them and recommended potential locations for new pharmacies.
- Technologies Used: Python, Tensorflow, Pandas [[GitHub](#)]

Bitcoin Trade Portal

Sep 2021 -- Dec 2021

- Developed a full stack web application that easily allows clients and traders to buy and sell Bitcoin.
- Implemented front-end and back-end for transfers and search functionality.
- Technologies Used: Python (Flask), React, Docker, MySQL [[GitHub](#)]