# Kshitij PARASHAR | Email: kp27work@gmail.com
**Github: xitij27 | Portfolio website: xitij27.github.io | LinkedIn: xitij27**

## EDUCATION

**Nanyang Technological University, Singapore**                    Aug 2020 – May 2024
**Bachelor of Engineering (Computer Science)**
- Relevant courses: Advanced Software Engineering, Net Centric Computing, Introduction to Data Science and AI, OS.

## WORK EXPERIENCE

**Temasek Laboratories@NTU**                    Jan 2023 – Present
**Full Stack Developer Intern**
- Worked on MERN stack application which uses NLP services with Ubuntu 20.04.
- Refactored code to reduce hard-coding and make deployment easier.
- Tested backend on Azure Virtual Machine.

**VFlowTech Pte. Ltd.**                    May 2022 – Aug 2022
**IoT Intern**
- Reviewed 3$^{rd}$ party IoT platform and coordinated with developers to debug issues to improve user experience.
- Programmed firmware on Raspberry PI/Advantech using C++ with Modbus TCP/IP and HTTP/MQTT protocols.
- Evaluated and tested AWS, Google Cloud, Azure and Digital Ocean services for IoT platform development.
- Spearheaded IoT Development team for creating a new platform using MERN stack.
- Programmed cloud servers using AWS EC2 and Digital Ocean Droplet.
- Engineered configuration of DNS and NGINX web servers along with TLS encryption.
- Studied IoT data to design predictive alerts for implementation of machine learning algorithms.

**Mentogram**                    May 2021 – Aug 2021
**Business Analyst Intern**
- Examined coaching market to devise new strategy for growth and sales.
- Designed value proposition canvas and sales pitch by identifying pain points, goals and solutions to problems faced by coaching industry.

## ACADEMIC PROJECTS

**CZ3004 – Multidisciplinary Project** *(video presentation)*                    Aug 2022 – Nov 2022
- Led a team to create a self-navigating robot in a known environment controlled with an Android device.
- Developed an Android application for controlling the robot via Bluetooth.
- Achieved rank 1 competing against 47 teams in first task.

**CZ3002 – PreSchool GoWhere**                    Aug 2022 – Nov 2022
- Developed a web application to help parents find preschools based on various criteria like distance, 2$^{nd}$ languages offered, meal preferences, transport facility, etc.
- Used PostgreSQL, Express, React, Node.js (PERN stack).
- Hosted on Firebase and Render.

**CZ2006 – MyBikeSG, NTU** *(mybikesg-86ea4.web.app)*                    Feb 2022 – Apr 2022
- Pioneered a web application to help cyclists find Bike Racks, Flat Routes, and Repair Shops close to current location or destination.
- Created using MongoDB, Express, React, and Node.js (MERN stack).
- Hosted application on Firebase and Heroku.

**CZ2002 - Restaurant Reservation System, NTU**                    Oct 2021 – Nov 2021
- Developed a restaurant point of sale system as a command line application in Java.
- Utilized object-oriented programming concepts to build a flexible application.
- Modelled a reservation system using UML class and sequence diagrams.

**CE1115 - Introduction to Data Science and Artificial Intelligence, NTU**                    Jan 2021 – Mar 2021
- Analysed the Brazilian e-commerce public dataset by Olist on Kaggle.
- Predicted review score of each category of product using numPy, pandas, seaborn & matplotlib.
- Trained regression models (linear, random forest) and classification models (logistic, random forest).

## PERSONAL PROJECTS

**Portfolio Website** *(https://xitij27.github.io)*                    Dec 2022
- Developed using HTML, CSS and JavaScript.

## CERTIFICATIONS

**JPMorgan Chase & Co.**                    Jun 2022 – Jul 2022
- Completed '*Software Engineering Virtual Experience*' program.

**Texas A&M University, Qatar**                    Jun 2020 – Jul 2020
- Completed '*Creative Fusion – Introduction to 3D Modelling*' program using Fusion 360.

## CO-CURRICULAR ACTIVITIES

**Students' Computer Science and Engineering Club, Nanyang Technological University**
**Academics Executive**                                                                      Oct 2022 – Present
- Organised '*Techterview 101*' event for helping students crack technical interviews.
- Delegated the correction of previous year paper solutions.
- Collaborated with the Office of Student and Alumni Affairs to organise the *'Peer Tutoring Programme'*.

**V-Work Asia-Ready Exposure Programme, Cognizant x National Youth Council**                 July 2022
- Presented on the role of 'Data and AI in Pandemic Management' with a team from ASEAN, India and China.
- Ranked amongst the top 4 teams and awarded with "The Best Challenge Statement Project Presentation".

**Mission X Programme, Youth Corps Singapore**                                               May 2022
- Participated in workshops on planning impactful community service projects and effective volunteer management.

**CANdroid Residential Education Programme, Hall 3**                                          Feb 2022 – Mar 2023
**Student Assistant**
- Conducted sessions and assisted participants in developing mobile applications using Android Studio.

## SKILLS

**Programming Languages:** C/C++, Python, Java, SQL, HTML/CSS, JavaScript (React, Node.js), Android development.
**Cloud:** Azure, AWS, Google Cloud, Digital Ocean.
**Data Science & Analytics:** Python (numPy, pandas, seaborn, matplotlib), PowerBI
**Databases:** NoSQL *(MongoDB, CosmosDB, DynamoDB)*, SQL *(Postgres, mysql)*.
**Project Management:** Github, Tortoise SVN, Trello.
**IDEs & Editors:** Eclipse, VSCode, Netbeans, Jupyter, Android Studio.
**3D Modelling:** Fusion 360
**Languages:** English (Proficient) and Hindi (Native).