

SATBIR SINGH

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EDUCATION

Indian Institute of Technology, Ropar September 2020 – May 2022
Master of Technology (Artificial Intelligence) guide: Dr. Shashi Shekhar Jha
CGPA: 7.73/10

Guru Nanak Dev University RC Jalandhar August 2014 – May 2018
Bachelor of Technology (Computer Science and Engineering) guide: Dr. Varinder Kaur Attri
CGPA: 7.58/10

EXPERIENCE

Tiger Analytics June 2022 – Present
Data Analyst Remote

- Working as a Data Analyst in the Data Science Team.
- Skills: Python, SQL, Statistics, MS-Excel

REAN Foundation January 2022 – February 2022
Freelance Web Developer Remote

- Developing the frontend of the website for their upcoming initiative.
- Skills: HTML, CSS, Flexbox

Scaler December 2021 - Present
Content Writer Remote

- Writing technical articles on topics like DBMS, Data Structure, SQL and C Programming.
- Wrote 14 articles till now.
- Contributed in website page content of their upcoming machine learning course.

Unacademy March 2021 – August 2022
Mentor for GATE Remote

- Had an overall coach rating of 97 percent, successfully delivered 800+ sessions.
- Mentored 700+ GATE aspirants in the right direction to get the maximum output and best result.
- Making the study plan, strategy, monitoring progress, and resolving challenges aspirants face in their GATE preparation

Tata Steel Limited February 2018 – April 2018
Vocational Intern Remote

- Made a research report about SharePoint and Office365 under the guidance of Mr. Shailesh Kumar.
- Leveraged knowledge in using document & content management tools like SharePoint and Office 365.

Tata Technologies Limited June 2017 – July 2017
Web Developer Intern | [Link](#) Jamshedpur

- Developed Web application to manage complaints of the customers in a team of 5 members
- Worked with Front End web development tools like HTML, CSS, Bootstrap, JavaScript, and jQuery
- Integrated PHP with MYSQL using the XAMPP server

PROJECTS

UAV Base Stations Path Planning in Mobile-Edge Computing System

December 2021 - Present

MTech Project

- Path Planning in multi-agent UAV-based systems that use Mobile-Edge Computing for online data Processing.
- Using Deep Reinforcement Learning by applying Deep Q-Network (DQN) Algorithm to generate optimal policy.

Scalable Projects

January 2021 - May 2021

PG Software Lab by Dr. Viswanath Gunturi

[GitHub](#)

- Made 3 projects that are scalable and could handle large amount of data.
- Shortest Path between two locations, Disk Block Storage Simulation, and Grid Files for storing and querying two-dimensional data points using C/C++

Improvements in automatic Ship collision avoidance

January 2021 - May 2021

Artificial Intelligence by Dr. Shashi Shekhar Jha | 2-member team

[GitHub](#)

- Tried to come up with a collision avoidance system in multi ship environment with certain assumptions.
- Ensured our ship never collides with any of the target ships and reaches goal.
- Once the collision is detected the AI module performs heuristic-based search guided by Fuzzy module to prune the search space (Fuzzy A* with dynamic heuristic) and gives the direction to be taken to avoid collisions.

DSA based Projects

September 2020 - December 2020

Data Structure and Algorithms by Dr. Anil Shukla

[GitHub](#)

- Did 8 assignments/projects in this course that covered the basics of Data Structure and Algorithms using C/C++
- File Encryption and Decryption of text file was the major project that could encrypt the file and reduce the file size upto 50% and the compression is lossless and can Decrypt it back to original Text file

Web Development Projects

January 2017 - July 2017

FreeCodeCamp

- Made some basic web applications using HTML, CSS, Bootstrap and little bit of Javascript
- [Wikipedia Search](#), [Simon Game](#), [Tic-Tac-Toe Game](#), [Pomodoro Clock](#), [Local weather App](#), [Random quote generator](#)

COURSES

MTech: Mathematical foundation of Computer Science, Data Structures and Algorithm, Computer Systems, Machine Learning, Artificial Intelligence, PG Software Lab, Introduction to Game Theory and Mechanism Design, Internet of Things, Reinforcement Learning, Research Methodology in Computer Science

Online: Product Management (Doremon Den), Fundamentals of Digital Marketing (Google), PHP & MySQL (IIT Bombay), Front End Web Development (Freecodecamp), Git and Github (Coding Minutes)

POSITIONS OF RESPONSIBILITY

IIT Ropar

August 2021 - Present

Teaching Assistantship

Remote

- Analysis and Design of Algorithms (CS302) under Dr. Apurva Mudgal
- Introduction to Computing and Data Structures (GE103) under Dr. Sudeepta and Dr. Nitin Auluck
- Discrete Mathematical Structures (CS101) under Dr. Apurva Mudgal
- Helping with grading of quizzes. Performing plagiarism detection on assignment submissions
- Helped in evaluating lab assignments and exams

Career Development and Placement Cell, IIT Ropar

March 2021 – Present

Placement Coordinator

Remote

- Interacted with 50+ companies till now, inviting and following up for Campus Recruitment of 2021-2022 Season.
- Working in the Media team, to increase social media reach and develop corporate relations with Companies.

- Outreaching companies; Handling social media accounts of IIT Ropar along with other team members.

VOLUNTEERING EXPERIENCE

Girlsript Foundation

The Uplift Project

March 2021 – September 2021

Manager

Remote

- Planning strategies to successfully execute 3 months long event.
- Managing all the queries of participants and mentors during the event.

Girlsript Jamshedpur

April 2020 – April 2021

Coding Mentor

Remote

- Mentored more than 175 students in C and C++ Programming.

Education Outreach Program

April 2020 – May 2020

Team Member and Mentor

Remote

- Collaborated in managing the event, which positively impacted over 4500+ students from 4 different countries.
- Mentored in DSA for interviews, Batch-1 of 200 students, helped create content, make, and grade the Quizzes, resolving students' doubts.
- Mentored in C Programming Batch-2 of 70+ students, took online sessions for 14+ hours, and guided students to learn C Programming basics.
- Managed data of 3000+ students, co-ordinated in authenticating and managing students in the slack group.

Failure to Success (FTS)

September 2020 - September 2020

Social Media marketing Intern

Remote

- Learned marketing skills from some fantastic people.
- Shared my ideas and helped the team to grow organically.

The Circle of Legends

May 2020 – September 2020

Chief Planning Officer

Remote

- Organizing events and workshops, overseeing the LinkedIn page, having 4000+ followers, team management.

Leverage LinkedIn

June 2020 – September 2020

Global Volunteer

Remote

- Spreading awareness about the effective use of LinkedIn to 6 million users in 200+ countries.
- Educated LinkedIn Users through posts, creatives, webinars, recorded pieces of training, and more.

Gateoverflow

December 2017 – February 2017

Editor

Remote

- Held the position of Editor in the Gateoverflow group, which is having over 105,000+ users
- Editing content on the website and writing answers to GATE related questions. Wrote 450+ answers.
- Giving guidance to juniors and discussing GATE questions among the community.

ACHIEVEMENTS

- Qualified GATE 3 times. Secured AIR-839 amongst 97481 candidates in GATE 2020
- Secured AIR-127 in JEST 2020
- Have more than 18000 connections on LinkedIn who like to interact with me.