

Prabhat Kumar Sharma

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EDUCATION

Indian Institute of Technology (IIT), Jammu <i>Master of Technology in Computer Technology — CGPA-8.9/10</i>	Jammu, IN <i>Sep. 2020 – Present</i>
NSUT East Campus (Formerly AIACTR) <i>Bachelor of Technology in Computer Science & Engineering — CGPA-8.27/10</i>	Delhi, IN <i>Aug. 2016 – Sep 2020</i>
Parmeshwari Devi Dhanuka Saraswati Vidhya Mandir <i>Intermediate — Percentage-83.4/100</i>	Mathura, IN <i>Apr 2015</i>

TECHNICAL SKILLS

Languages: C/C++ ,Python, PHP
Database/Query Languages: SQL, MongoDB, GraphQL
Developer Tools: Git, Rest APIs, JSON, NPM/Yarn, Heroku
Frameworks/Libraries: ReactJS, NodeJS
Platforms: Linux, Windows

EXPERIENCE

SDE Intern <i>Zomato Limited</i>	Aug. 2022 – Jan. 2023 <i>Gurgaon, IN</i>
<ul style="list-style-type: none">Experimented the service on 20% users and scaled to the six cities.Formulated the backend logic and optimized the search time of healthy business by 10x.Backend tracking and feature experiments for user behaviour analysis.Designed the consumption notification flow for delivery charge packs that increases the selling count by 5 million.Developed the features for the delivery charge pack to enhance the business growth of Zomato.Tech Stack: GoLang, GRPC, PHP, MySQL, Docker	
EDG Intern <i>Mathworks</i>	Jun. 2022 – Aug. 2022 <i>Bengaluru, IN</i>
<ul style="list-style-type: none">Designed & Developed a Matlab application for equivalence testing of the Simulink models.Worked on Simulink design verifier to run invalid class test cases on a model.Debugged the latest product release in India-wide competition.Created a classification model to optimize the Bat engine with 92% Accuracy.Tech Stack: CPP, MATLAB, GIT, Simulink	
Software Engineering Intern <i>Toastbeat Ltd. UK</i>	May 2021 – July 2021 <i>Remote, London</i>
<ul style="list-style-type: none">Worked on a Rental Property Management Solution named RentoncloudDeveloped new APIs using GraphQL and NodeJS to reduce DOM rendering time.Updated the existing APIs based on the current feature requirements.API and product flow documentation to reduce the development time.Integrated APIs with the existing ReactJS code-base of the organization.Debugged the authentication and other code modules for smooth user on boarding.	
Full Stack Developer Intern <i>LearnCool Pte. Ltd.</i>	May 2019 – Oct 2019 <i>Remote, Singapore</i>
<ul style="list-style-type: none">Developed an internal version control system for the primary feature of the platform using Gitlab APIs.Developed User-Centric quiz-game using react and Mongoddb, surpassing 100 users within a month since launch.Development of new and maintenance of existing APIs made using Graphql and Nodejs.Designed a system to choose a preferred payment gateway based on the user's location.(revenue growth increased by 15%).	

PROJECTS

Underwater Object Detection | *Python, Tensorflow, Keras, Numpy, Pandas, Python, Few shot Learning* IIT JAMMU

- Developing a novel encoder-decoder architecture to improve object detection performance in challenging underwater environments, surpassing existing state-of-the-art results.
- Designing and implementing a few-shot learning technique to overcome the scarcity of data and improve object detection accuracy in underwater scenes with low contrast, lighting, and image blurring.

Weather Forecasting System | *Python, Numpy, Pandas, Sklearn, IoT* IIT JAMMU

- Deployed IoT Sensors for Temperature Humidity, Soil Moisture, Air Quality Index and Deflection with the main Gateway node.
- Collected real-time data through sensors over a cloud using a small private network maintained in the gateway.
- Forecasted weather (Temperature, Humidity) for the IIT Jammu campus using Machine Learning techniques.
- Predicted landslides in the hilly areas using soil moisture and deflection sensor by setting some threshold value of deflection in particular axis and observing previous data of soil.

Train App | *PHP, MySQL, JQery, REST APIs, Git* Freelance

- Developed full featured train booking application having features like live trains status, seats availability, train availability.
- Designed and Developed the API and Integrated with the PHP code.
- Integrated Instamojo as a payment gateway.
- Maintained the CI/CD of the project.
- Developed the authentication flow with Google and Facebook OAuth.

Crop Predictor | *React, MongoDB, Heroku, Javascript, Git* Paytm-BFI Hackathon

- Developed a full-stack web application using React, serving a REST API with React as the frontend.
- Integrated Google OAuth Login/Signup.
- It is an agricultural solution, which predicts the top 5 best-suited markets to sell the harvest. The algorithm calculates based on daily market quotes, transportation cost and returns the maximum profitable markets.

Motion Detector | *ThingSpeak, Javascript* IOT Course

- IoT applications detects the motions and acceleration of mobile phone using sensors and triggers the alerting system. In mobile theft, accelerations cross the threshold limit and system locks the mobile which Leads to data protection.

ACHIEVEMENTS

- Consistently in the Top 5 during Master degree and Top 10 In all the semesters during Bachelor's Degree.
- Scored 290/300 In Code Kaze-21 (National Level Coding Competition).
- Secured 24th Rank in NJack Winter Of Code.
- 1614 (3*) Highest Rating on Codechef
- Secured Qualifier Round In Paytm- BFI Hackathon

RELEVANT COURSEWORK

- High Performance Computing , Computer Vision , Deep Learning
- Data Organization and Information Retrieval
- Linear Algebra , Data Structures Algorithms
- DBMS, Operating Systems, Computer Networks

POSITIONS OF RESPONSIBILITIES

Research Assistant | *IIT JAMMU*

- Working in Central Computing and Communication Infrastructure (C3I).
- Working On High-Performance Computing of IIT JAMMU.

Placement Representative | *CDS-IIT JAMMU*

- Actively working member at Career Development Center.

TEDx AIACTR | *AIACTR*

- Lead a technical team of 4 members for a year to manage designing, content writing and development of technical requirements.
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