



**IIT Ropar, B.Tech, Computer  
Science**  
**JEE Advance AIR: 1633**

**KARTIKEYA PISE**  
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## INTERNATIONAL INTERNSHIP

In-house System Developer, **Weathernews Inc. Japan.**  
Jul 2020

May 2020 -

- Part of **Server Engineering** team which is responsible for handling and maintaining the database servers and web servers
  - Created web page to visualize and **download data stored across different servers** for employees.
  - Displayed authority information of employees after their login for better management.
  - Added password policies on different registration pages to **enhance security**.
  - Improved the display speed of web-pages by reducing load of humongous data on JS for **better user user-experience**.
  - Created a Web application that enables **database synchronization between different system environments** on a click.
  - Helped system administrators to download a list of all users with appropriate information.
- Learning Experience: **Team-work, Structured Programming Practices**, Patience and co-operation, using git-hub, working on a remote server, using **Environment variables in Configuration files** for security purposes

## RELEVANT COURSES

Completed: Operating Systems, Data Communication and Computer Networking,  
Database management Systems, Data Structures and Algorithms.

Learning : AWS, System Design, Distributed Systems, Linux System Administration

## TECHNICAL PROFICIENCY

Languages: **HTML, CSS, JavaScript, React.js, Node.js, MongoDB, MySQL, Python, JAVA,**  
PostgreSQL, Perl, Perl CGI Script, C, C++, Assembly

Python Libraries: Matplotlib, NumPy, Pandas, NetworkX.

JavaScript Libraries: **jQuery, vis.js**(Data Visualization)

Template Engine: **Pug**

Node.js libraries: **mongoose, Joi, bcrypt, jsonwebtoken, config**

Familiar with : **Sql and NoSql databases, Asynchronous Javascript, Threading, Object Oriented Programming, http and https, etc.**

## ACADEMIC PROJECTS

Projects Details: [https://kartikeyapise.github.io/Kartikeya\\_resume/projects.html](https://kartikeyapise.github.io/Kartikeya_resume/projects.html)

**DLD Website - Web Development** <https://github.com/Kartikeyapise/Website-for-Digital-Logic-Design>

Website to help and aid the learning process of students enrolled for Digital Logic Design.

Includes: Simulations for Boolean algebra using gates.

Simulation to visualize State Machines

Simulation to visualize binary Arithmetic

Website hosted on: [https://kartikeyapise.github.io/Binary\\_Arithmetic\\_by\\_kartikeya/](https://kartikeyapise.github.io/Binary_Arithmetic_by_kartikeya/)

**RISC\_V Assembly Language Simulator – SDE** <https://github.com/Kartikeyapise/RISC-V-Simulator>

Advanced RISC V simulation software converts assembly instructions to machine language. Supports  
Pipelining forwarding, stalling as well as branch prediction.

**KD-trees Data Structure** [https://github.com/Kartikeyapise/KD\\_tree\\_for\\_efficiently\\_searching\\_geometric\\_data](https://github.com/Kartikeyapise/KD_tree_for_efficiently_searching_geometric_data)

Implemented 2-d tree which can efficiently search 2 dimensional geometric data.

Supports K nearest neighbours(KNN) query and range queries.

**File transfer system-Software Development** <https://github.com/Kartikeyapise/File-transfer-system>

Software for transferring files from one IP address to another.

Faculty-web-portal –**DBMS** <https://github.com/Kartikeyapise/faculty-web-portal-for-management-in-academic-institution>

Designed a robust leave management application.

Portal to view the status of employees in an organization.

Grid Files- In-memory **Data Structure** [https://github.com/Kartikeyapise/Grid\\_File](https://github.com/Kartikeyapise/Grid_File)

Grid file (geometric data structure for optimized range queries and searching) implementation. Grid file

Keeps dividing efficiently all the points in 2 dimensional plane and adds the points in a bucket. The

maximum size of the bucket is fixed. Due to this implementation we can optimally search any point in 2-d plane using the grid number and traversing the corresponding bucket.

## EDUCATION

COURSE	INSTITUTE	SCORE	YEAR
CLASS X	Rosary International School, Pune	9.34 / 10	2015
CLASS XII	Sir Parashuram Bhau college(S.P. college), Pune	8.2 / 10	2017
B.Tech	Indian Institute of Technology Ropar	6.7 / 10	2021

## SOCIAL WORK AND POSITIONS OF RESPONSIBILITY

- Organization: **BloodConnect** | Role: **Fund-Raising-Executive** | Cause: **Social Service** Sep 2017 - Aug 2019  
Aim: To eliminate the Blood shortage.  
Activities: Organize frequent Blood donation camps | Supply blood to blood banks.
- Organizer** - Inter-Year-Sports Championship, IIT Ropar sept 2018

## AWARDS AND RECOGNITIONS

- KVPY-IISc** (Kishore Vaigyanik Protsahan Yojana) | Indian Institute of Science (**IISc**) Nov 2016
- 52nd **Inter-IIT sports meet** | Indian Institute of Technology Madras Dec 2017
- Maharashtra Talent Search Examination(**MTSE**) | Nowrosjee Wadia College, Pune Aug 2013
- 1st place** in **chess** competition. (2nd Year) | IIT Ropar Jan 2019
- level 1-2 - **Harmonium** Exam | Akhil Bhartiya Gandharva Mahavidyalaya Mandal, Mumbai Jun 2008