

## Educational Qualifications

Year	Degree/Certificate	Institute/School	CGPA/%age
2014	B. Tech(Computer Science)	IIT Kanpur	8.2/10.0
2010	AISSCE(CBSE Board)	Milton Public School, Agra	86%
2008	AISSE(ICSE Board)	Rani Laxmibai Public School, Jhansi	93%

- **ACM ICPC International** Collegiate Programming Contest 2012, Kanpur site regional finalist

## Work Experience

- **Co-Founder, ruly** Oct'15 - present  
*Full stack developer*
  - Designed and developed ruly android app with **rss feed, in-app purchase, chat** and others.
  - Database management.
  - Backend api's for app and website using Django framework
  - Engagement service for users
  - Currently creating CRM SAAS product
- **Software Engineer, Samsung** June'14 - Oct'15  
*Commercialization and Power Management Team*
  - Developed and proposed commercial prototypes for patented ideas and proposed new ideas.
  - Handled issues related to power management in mobile devices.

## Academic Projects

- **ARTIFICIAL GAMING AGENT** Feb'13 - Apr'13  
*Artificial Intelligence Course Project under the guidance of Dr. Amitabha Mukherjee*
  - **Developed artificial Gaming agent**, capable of intelligently playing any GDL describable game without having any prior knowledge of it and without any human intervention.
  - **Explored Bandit and Monte Carlo Tree Search (MCTS)** methods.
  - Selected in the **top 5 among 40 projects** in the course : Artificial Intelligence.
- **MOVIE RATING PREDICTION SYSTEM** Aug'13 - Dec'13  
*Machine Learning Course Project under the guidance of Dr. Harish Karnick*
  - **Collaborative filtering** setting where one user's preferences are used to find users with similar preferences.
  - Used **Jaccard Distance\*** and **Cosine Distance** to calculate similarity between users or movies

- Improved the accuracy by using **k-nearest neighbor approach and SVM classifier**

## **PINTOS : OPERATING SYSTEM**

Aug'12 - Nov'12

- *Operating Systems Course Project under the guidance of Dr. Subhajit Roy*
  - **Implemented a subset of Posix interface** of message queues and Pthreads to **solve the Producer-Consumer problem**
  - **Implemented the First Come First Serve (FCFS), Round Robin (RR) and Priority Scheduling** scheduling policies
  - **Implemented virtual memory management** via pure demand paging with backing store using big blocks of memory
  - **Implemented fork(), exec(), mkdir(), chdir(), readdir()** system calls
- **OTHER PROJECTS**
  - Hall and Library Management System using **Django Framework**.
  - **Configured G1** to achieve high responsiveness and skip STOP THE WORLD event for a scenario
  - Developed personal website using **Django** hosted on **Heroku**.

## **Research Experience**

- **K-Dominance in skyline join queries(KSJQ)** IIT Kanpur  
*B.Tech Project under the guidance of Dr. Arnab Bhattacharya* Aug'13 - June 13
  - **Initiated research** on finding Skyline data points according to k-Dominance in relational database Join Queries
  - **Designed efficient algorithms** for computing k-Dominant skyline sets in joined relations
  - **Verified the efficiency** of the designed algorithms on carefully designed synthetic data

## **Relevant Courses**

Data Structures and Algorithms	Operating Systems	Database Systems	Computer Networks
Probability and Statistics	Algorithms-II	Compiler Design	Computer Organization
Advanced Network Security	Game Theory	Discrete Mathematics	OOPs
Randomized Algorithms	Machine Learning	Artificial Intelligence	

## **Technical Skills**

- **Programming Languages:** C, C++, Java, Python
- **Tools:** Unity, Weka, GDB Debugger, Latex, Matlab, Octave, Eclipse, Studio
- **Operating Systems:** Windows and Linux
- **Application Development Platforms:** Android, Ruby On Rails, Django
- **Web Development:** HTML, CSS ,PHP, MySQL