

Pranjal Tale

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

INT. MSc IN APPLIED MATHEMATICS
2015 - 2020 (expected)
Roorkee, India
Cum. GPA: 7.386

JAWAHARLAL NEHRU SCHOOL SENIOR SECONDARY(CBSE)

Grad. May 2015
Bhopal, India

AREAS OF INTEREST

Software Development,
Deep Learning,
Network Security

OPEN SOURCE

CodeWorld, Sympy, Cadasta

LINKS

Github:// [pranjaltale16](#)
Portfolio:// [pranjaltale16](#)
LinkedIn:// [pranjaltale16](#)
Codechef:// [pranjaltale16](#)

COURSEWORK

COMPUTER RELATED

Mathematical Imaging Techniques
Database Management Systems
Linear Algebra
Design and Analysis of Algorithms
Data Structures
Machine Learning (Andrew NG, Coursera)
cs231n (CNN for Visual recognition)

MATHEMATICS RELATED

Complex and Real Analysis
Probability and Statistics
Number Theory
Discrete Mathematics
Graph Theory
Numerical Methods

EXPERIENCE

VERNACULAR.AI | SOFTWARE DEVELOPER INTERN

Nov 2017 - Dec 2017 | Bangalore, India

- Developed a python package to parse text into structured data. It parses temporal expressions from different languages and recognize quantities described in different ways.
- Tech-Stack: Python, Django, git

CODEWORLD | SUMMER OF HASKELL 2017

May 2017 - Sep 2017 | Work from home

- Developed a standalone executable Cabal package for source code compilation wrapped over GHCJS; added test suite for the same and regex parser for filtering the error messages. Made a custom tree parser using haskell-src-xts and syb, to check for syntax errors before compilation.
- Tech-Stack: Haskell, Javascript, Shell scripting, SNAP-framework, git

TECHNICAL PROJECTS

SMP PORTAL | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

- Developed an application enabling information exchange, event announcement, documents sharing between mentors, mentees and team with push notifications, aimed at fostering healthy interaction.
- Tech-Stack: Django, mysql, semantic-UI, jQuery, django-auth, Apache2.

NOBEL | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

- Nobel is an internal Chat Room for the members of IMG, Built on NodeJs using socket.io and Semantic-UI. It helps us to check for the presence of members in the lab and communicate with them.
- Tech-Stack: Node-js, Express, Semantic-UI, pm2, vanilla js, Socket.io.

IMG WEBSITE | INFORMATION MANAGEMENT GROUP, IIT ROORKEE

- Worked on IMG(Information Management Group) website as a full stack developer. It consists of features like dashboard for user, admin panel, blogs etc, also, the same tries to connect alumni with team.
- Tech-Stack: Django, mysql, materializecss, jQuery, Apache2.

ACADEMIC PROJECTS

SUMMER UNDERGRADUATE RESEARCH AWARD | IIT ROORKEE

- Developed a model in MATLAB for 3D analysis of Oxygen transfer for animal cell suspension culture, mentored by Dr. Ameya K. Nayak. To study the flow field and oxygen transport in a micro bioreactor and extend the results for micro-scale.

IMAGE DEBLURRING

- Image single image deblurring using Blind Deconvolution method in MATLAB, mentored by Dr. Sanjeev Kumar.

LAB EXPERIENCES

- Implemented Several Algorithms in Data Structures, also incorporated advanced topics such as Segment Tree, AVL Tree, Dynamic Tree etc.

SKILLS

PROGRAMMING

Proficient:

Haskell, Python, C++

Experienced:

LaTeX PHP, CSS, Js

WEB

Django, Express, SNAP-framework

UTILITIES

Linux, GitLab, Sentry, Piwik, MySQL,
Apache2, Redis, TensorFlow, scikit-learn

LANGUAGES KNOWN

English - RSW

Hindi - RSW

EXTRACURRICULAR

ACTIVITY

Cook.

Play Guitar and Ukulele.

Cuber.

Photographer.

Astrophile.

REFERENCES

DR. A. K. NAYAK

Associate Professor, Dept. of
Mathematics
Indian Institute of Technology
Roorkee
nayakfma@iitr.ac.in

ACHIEVEMENTS

- 2017 Recipient of Summer Undergraduate Research Award (SURA) by IIT-Roorkee
- 2017 Participated in HackDTU and successfully completed the app in 24 hours
- 2016 Recipient of INSPIRE-SHE scholarship, by Government of India
- 2016 Successfully completed the app overnight as a part of Code.Fun.Do 17
- 2016 Qualified for Elimination round of Codechef SnackDown-2016
- 2014 Awarded a Gold Medal in the school Basketball Open
- 2013 Selected for a visit to HEGRO Observatory situated in Pachmari, MP

POSITION OF RESPONSIBILITY

PROJECT LEADER | INFORMATION MANAGEMENT GROUP

Jan 2016 – Present

- IMG, (Information Management Group) is a student's group in IIT Roorkee responsible for development and maintenance of internet and intranet applications in the institute, including the website of IIT Roorkee.

JOINT SECRETARY | PROGRAM MANAGEMENT SECTION

Aug 2016 – Present

- Program management section is a cultural club under Cultural Council IITR, and is responsible for the conduction and management of all the events of Cultural Council smoothly.

SENATE MEMBER | STUDENT AFFAIRS COUNCIL

July 2015 – April 2016

- I have been the part of Alumni Relations Team of SAC (Students Affair Council) IIT Roorkee for the academic Year 2015-2016.

BRANCH REPRESENTATIVE | COGNIZANCE IIT ROORKEE

July 2015 – April 2016

- Cognizance IIT Roorkee is the Asia's second largest technical Festival Held in March every year I have been selected as a branch representative by Cognizance IIT Roorkee for the year 2015.