

Pranjal Tale

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

INT. MSc IN APPLIED MATHEMATICS
2015 - 2020 (expected)
Roorkee, India
Cum. GPA: 7.40

JAWAHARLAL NEHRU SCHOOL SENIOR SECONDARY(CBSE)

Grad. May 2015
Bhopal, India

LINKS

Github:// [pranjaltale16](#)
Portfolio:// [pranjaltale16](#)
LinkedIn:// [pranjal-tale](#)
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)

SKILLS

PROGRAMMING

Proficient:
Haskell, Python, C++
Experienced:
L^AT_EX PHP, CSS, Javascript

WEB

Django, Express, SNAP-framework

UTILITIES

Linux, GitLab, Sentry, Piwik, MySQL,
Apache2, Redis, RabbitMQ

REFERENCES

DR. A. K. NAYAK

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

EXPERIENCE

CODEWORLD | SUMMER OF HASKELL 2017

May 2017 – Sep 2017 | Work from home

- Made a standalone executable Cabal package for source code compilation wrapped over GHCJS; added test suite for the same and regex parser.
- Made a custom tree parser using haskell-src-exts and syb, to recurse through AST and 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.

ACADEMIC PROJECTS

A 3D ANALYSIS OF OXYGEN TRANSFER FOR ANIMAL CELL SUSPENSION CULTURE

- Mentored by Dr. Ameya K. Nayak. A 3D model was developed in MATLAB, to study the flow field and oxygen transport in a micro bioreactor with rotating magnetic field at the bottom.

ACHIEVEMENTS

2017 Recipient of Summer Undergraduate Research Award (SURA) by IITR
2017 Participated in HackDTU and successfully completed the app in 24 hours
2016 Successfully completed two apps overnight as a part of Code.Fun.Do 16, 17
2016 Qualified of Elimination round of Codechef SnackDown-2016

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.