Pranjal Tale

http://pranjaltale16.github.io
pranjaltale16@gmail.com | (+91)-9131229793

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Int. MSc in Applied Mathematics
2015 - 2020
Roorkee, India

JAWAHARLAL NEHRU SCHOOL
Senior Secondary(CBSE)
Grad. May 2015
Bhopal, India

AREAS OF INTEREST

Open Source Development,
Web Development,
Server Side Infrastructure

OPEN SOURCE

CodeWorld, Sympy,
Firepad, Cadasta

LINKS

Github:// **pranjaltale16**
Portfolio:// **pranjaltale16**
LinkedIn:// **pranjaltale16**
Codechef:// **pranjaltale16**

COURSEWORK

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

EXPERIENCE

HACKERRANK | Software developer intern
Nov 2018 - Dec 2018 | Bangalore, India
- Developed a portable static binary in Golang to compile and run code of any language inside a container. Used Golang templates and env variables to develop the logic of binary. Handles timeout and logs profiling of the submission.
- Wrote k8s charts and wrote Helm charts for the same.

May 2018 - July 2018 | Bangalore, India
- Extended Firepad to support collaborative editing for Monaco-editor.
- Developed code evaluator which evaluates submission in isolated environment using container properties.
- Tech-Stack: Docker, Golang, AWS-SQS, JavaScript, Firebase

VERNACULAR.AI | Software developer intern
Nov 2017 – Dec 2017 | Bangalore, India
- Developed python package to parse text strings into structured data.
- Parses temporal expressions of different languages and recognise quantities described in it in different forms.
- Tech-Stack: Python, Django

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 reg-ex parser for filtering the error messages.
- Made a custom tree parser to check for syntax errors before compilation.
- Tech-Stack: Haskell, JavaScript, Shell scripting, SNAP-framework

TECHNICAL PROJECTS

CMS | Information Management Group, IIT Roorkee
- CMS is a multi-user interface for managing, updating and publishing content on IIT Roorkee's Official Website.
- Role: Developer + Mentor | Tech Stack: Yii, RabbitMq, Apache2

DOCKER-CMS2.0 | Information Management Group, IIT Roorkee
- Dockerized the CMS 2.0 infrastructure consisting of the components like Apache, Yii2, RabbitMQ, Psql.
- Role: Developer | Tech Stack: Docker, Shell script

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.
- Role: Developer | Tech-Stack: Node-js, Express, Semantic-UI, pm2, vanilla js, Socket.io.

SKILLS

PROGRAMMING
Proficient:
Haskell, Python, Golang, C++
Experienced:
LaTeX PHP, CSS, Js

WEB
Django, Express, SNAP-framework

UTILITIES
Linux, GitLab, Sentry, Piwik, MySQL, Apache2, Redis, Docker, Kubernetes, AWS

LANGUAGES KNOWN

English - RSW
Hindi - RSW

EXTRACURRICULAR ACTIVITY

Cook.
Play Guitar and Ukulele.
Cuber.
Photographer.
Astrophile.

REFERENCES

MAHESH TIYYAGURA
VP Engineering
HackerRank

POSITION OF RESPONSIBILITY

CHIEF COORDINATOR | INFORMATION MANAGEMENT GROUP
Apr 2018 – Present
- IMG as a group that strives to lead in innovation and make the digital stay of people at IITR as comfortable as possible.
- Responsible for managing and maintaining the projects and ensuring that the ideas are being implemented properly.
- Managing a team of 55 geeks.

JOINT SECRETARY | PROGRAM MANAGEMENT SECTION
Aug 2016 – Present
- Program Management section is responsible for conduction of events of CC smoothly.
- Acted as a bridge between team and administration.
- Managed a team of 35.

ACADEMIC PROJECTS

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 etc.

ACHIEVEMENTS

2017	Recipient of Summer Undergraduate Research Award (SURA) by iitr
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 to visit to HEGRO Observatory situated in Pachmari, MP