Anant **Prakash**

COMPETITIVE PROGRAMMER · OPEN SOURCE ENTHUSIAST

(+91) 731-801-9903 | anantprakashjsr@gmail.com | APwhitehat | apwhitehat

Education _____

Indian Institute Of Technology Kanpur   *Kanpur, India*
B.TECH. IN CHEMICAL AND ELECTRICAL ENGINEERING - CPI 8.3   *July 2016 - PRESENT*

Honours & Awards _____

2017	**Ranked 16 as team notVindicators**, ACM ICPC Regionals IIT KGP	*Asia*
2017	**Achieved 29th place as team notVindicators**, ACM ICPC Regionals Amritapuri	*Asia*
2016	**Academic Excellency Award**, IIT Kanpur	*India*
2014	**Qualified for nationals with state rank 9**, Regional Mathematics Olympiad	*Jharkhand, India*

Work Experience _____

Dunzo Private Limited   *Bangalore, India*
SOFTWARE TECH INTERN   *May 2018 - July 2018*

- Dunzo is the first Indian startup to get direct investment from Google.
- Worked on auto stockout algorithm, ETA prediction, supply & demand query given a location and data storage services.
- Used GoLang and concurrent software design to make the system extremely fast & scalable.
- The services developed impacts the experience of 11,000 tasks raised by Dunzo users everyday.
- Challenging problems solved:
  - Redis query latency optimisation (saw reduction upto 3 times)
  - Online correction for demand/supply prediction
  - Persisting kinesis streams' id to prevent duplicate reads
  - Supervisor scripts for auto deployment

Google Summer of Code, Matrix.org   *mentor: Erik Johnston*
DENDRITE, OPEN SOURCE VOLUNTEER WORK   *May 2018 - August 2018*

- Matrix is an open protocol and network for encrypted, decentralised real-time communication.
- Worked on Dendrite, a matrix server implemented in GO.
- Made APIs idempotent using in-memory & database cache.
- Implemented several federation APIs for server-server synchronization.
- Worked on handling typing events in real time.
- See project on GSoC website.

New York Office, IIT Kanpur   *Kanpur, India*
INFRASTRUCTURE MANAGEMENT, UNDER PROF. MANINDRA AGARWAL   *September 2017 - May 2018*

- Associated as volunteer
- Rewrote configuration script for server installations for CoreOS platform in linux container config format
- Migrated etcd (a distributed, eventually consistent, key value store) from version 2.0 to 3.0.
- Technologies used: Kubernetes, Docker, Coreos Applications

Projects _____

Advance Track Project   *Under Professor Vinay P.*
                                                                            Namboodiri
IRC SERVER & CLIENT   *Aug. 2016 - Nov. 2016*

- Made an IRC Server with which multiple clients can chat with each other simultaneously
- Implemented using C++ Socket Networking.
- Implemented multi-threading using OpenMP.
- Also used non_block sockets ,polling ,using Select.
- See source code on Github.

Technical Skills

Languages

C/C++ (Proficient) · GO (Proficient) · Python (Competent) · Ruby/Rails · JavaScript · HTML/CSS

Others

Kubernetes · Redis · Django · GIT · LaTeX · Bash · Regex · Socket networking

Relevant Courses

Introduction to Programming(A∗)
Data Structures(*i*)

A∗: Grade for exceptional performance   i: In progress

Positions of Responsibility

2018-19   **Coordinator**, Programming Club   *IIT Kanpur*
2017-18   **Secretary**, Programming Club   *IIT Kanpur*

Interests

Competitive Programming

Rated as Expert on codeforces

Handle: APwhitehat   *July 28, 2018*

Open Source

Matrix.org

See contributions