

Ritik Kumar

Portfolio GitHub LinkedIn Medium
ritikkne@gmail.com | rkumar1@cs.iitr.ac.in

SUMMARY

Back end and DevOps programmer interested in Computer Networks & Protocols, Cloud and Distributed Computing. Open Source contributor.

EDUCATION

B. TECH., COMPUTER SCIENCE AND ENGINEERING

CUMULATIVE GPA 8.49/10

Indian Institute of Technology, Roorkee, India (2021)

SENIOR SECONDARY EDUCATION

BOARDS 92%

SKILLS

LANGUAGES

Comfortable

Python, Java, C#, JavaScript, HTML/CSS, bash

Familiar

C, C++, Q#, Go, TypeScript

FRAMEWORKS/LIBRARIES

Django, Android Java Framework, React JS, .NET

SOFTWARE/TOOLS/SERVICES

Git, Sentry, make, Doxygen, ssh, Nginx, Docker, Docker-compose, EFK MongoDB, PostgreSQL, Postgis, Redis Cache, Elastic Search eBPF, Mininet, Wireshark, Tcpdump, nc Heroku, Firebase-GCP, AWS, Azure GNU/Linux Ubuntu 22.04.1 LTS, Windows 11 Home

RESPONSIBILITY

- Back-end & Systems Developer and Mentor @MDG IIT Roorkee.
- Product Manager @Appetizer.
- Volunteer @NSS IIT Roorkee.

EXPERIENCE

AZURE NETWORKING | SOFTWARE DEVELOPER ENGINEER

Bengaluru | July 21 - present

- Working on SDN Control plane for Azure Networking.

NETWORK STREAMING ANALYTICS SYSTEMS FOR LAST-MILE NETWORKS | RESEARCH INTERN | LINK

UCSB, USA | Sept 20 - May 21

- Capture packet-level data from the last mile network devices.
- Developed eBPF-XDP based pipeline for packet collection in the Linux kernel.

FAMPAY | BACKEND REMOTE INTERN | LINK

Bangalore | Aug 20 - Oct 20

- Set up EFK Log Pipeline
- Add user location-based filter storing them in Postgis.
- Add new KYC and sign-up flows, among other things.

MICROSOFT EDGE | SOFTWARE DEVELOPER REMOTE INTERN

Hyderabad | May 20 - July 20

- Developed a new feature for EDGE Collections.
- Modified the Edge's codebase to modify and expose the API.

GOOGLE SUMMER OF CODE | STUDENT DEVELOPER | LINK

Named Data Network 2019

A photo and file-sharing peer-to-peer decentralised application built for Android on NDN (ICN). Access control is ensured using encryption, and data is fetched using AIMD pipelined Segment-Fetcher.

- Added the AIMD Segment-Fetcher for their Java Support Library.
- Updated the user Identity management application for NpChat.

BLOGS | TECHNICAL WRITER | LINK

Wrote some blogs on Computer Networks and Protocols.

PROJECTS

APPETIZER | PRODUCT MANAGER & BACK END HEAD | LINK

MDG IIT Roorkee

Appetizer is the official mobile application for IIT Roorkee aiming towards the management of mess functionalities.

- Worked on Database Query optimization and reducing Network Traffic.
- Implemented and tested multi-messing feature.

CODEPHILE | BACK-END HEAD | LINK

MDG IIT Roorkee

Codephile is a social networking application for competitive coders.

The tech stack includes Redis Elasticsearch, AWS-EC2, Firebase, Nginx, MongoDB, docker & Bee.

- Headed & mentored the back-end development and server deployment.

ACHIEVEMENTS

- Ran Appetizer in the campus for 1 yr with the average DAU exceeding 3500.
- Our team stood 3rd in the Hackinthenorth hackathon at IIIT Allahabad.