Bengaluru Karnataka, India
Bengaluru - 560025
□ +(91) - 9694725810
✉ prashantkr.kumar88@gmail.com
in prashantcse
⊕ PrashantPST

PRASHANT KUMAR

Snapshot

A software engineer currently engaged with MILVIK India having ten months of professional experience. I did my M.Tech. From NIT Jaipur and having a B.Tech. From Uttarakhand Technical University.

Work Experience

Feb 2018–Present	**Software Engineer** *MILVIK India* .

○ L2 Support Month End Automation -
A web application developed for providing a dashboard for L2 support team for their month-end tasks.
- Used Django for backend service and its templating engine for rendering UI.
- Remove the manual procedures which were error prone.
- It Reduces the time from many hours to just a few minutes.
- All database operations ran in a transaction; no inconsistent state of the database on failure(app).

○ Data Migration Service -
Migration service(a service which is part of a stack of services) in a spring-backend microservice architecture.
- A spring boot enabled service integrated with Kafka.
- A producer-consumer model where producer listens to the table on our one end platform and consumer consumes the same and stores at another end of a platform.
- Producer(Maxwell's daemon), an application that reads MySQL binlogs and writes row updates to Kafka.

Nov 2017–Jan 2018	**Software Engineer Trainee** *CodeHall Technology Pvt. Ltd. Bengaluru* .

○ College Search -
A web app for helping users(with varied roles) from the beginning of searching colleges to the seat allocation and college orientation for the students of different disciplines.
- Django backend microservice architecture in conjunction with React for UI.
- Discussion on the Database and API design of each service built by team members.
- Write the code for StudentProfile and News&Events services.

Projects

○ **A Blog Web App** (Django)

A blog web application where registered users can write their blog and could post it. Any anonymous users can view all blogs and could also filter blogs for a specific user. A registered user could modify/delete their blog only.

Repo Link: `https://github.com/PrashantPST/django-blog.git`

○ **Swiss Tournament Web App** (Django) (React)

In a Swiss tournament, players get never eliminated. Instead, players get paired in every round based on their scores. The two closest score player would clash for the next round, and the winner is the player who earns the most points at the end of the tournament.

The entire project has two sub-projects, one as a front-end (which is a React App), and the other one as aback-end (a Django project).

Front End Repo: `https://github.com/PrashantPST/swiss-tournament-frontend.git`

Back End Repo: `https://github.com/PrashantPST/swiss-tournament-backend.git`

○ **Masters Thesis** SAFETY: Early Detection & Mitigation of TCP SYN Flood Utilizing Entropy in Software Defined Networking.

This thesis presents SAFETY, a novel solution for the early detection and mitigation of TCP SYN flood harnessing the programming and wide visibility approach of SDN using entropy for destination IP with the attribute of TCP flags.

PUBLICATION

○ **SAFETY**: Early Detection and Mitigation of TCP SYN Flood Utilizing Entropy in SDN
Publication/Publisher - IEEE Transactions on Network and Service Management
Publication date - 2018-07-31
Publication URL - `https://ieeexplore.ieee.org/abstract/document/8423699/`

TECHNICAL STACK

○ **Programming Language:** (Python) (Java) (JavaScript)

○ **Web Framework:** (Django) (Spring)

○ **JavaScript Library** (React)

○ **Database:**
  - **Relational:** (MySQL)
  - **Document:** (MongoDB)

○ **Streaming Platform:** (Apache Kafka)

○ **Version Control System:** (Git)

ACCOLADES

○ Secured AIR 653 in GATE 2015.

EDUCATION

2015–2017 **M.Tech. in Computer Engineering** *Malaviya National Institute of Technology Jaipur 7.33 CGPA*.

2010–2014 **B.Tech. in Computer Science & Engineering** *Govind Ballabh Pant Institute of Engineering & Technology Uttarakhand 76.04 %(Honours)*.