

TAPESH MANDAL

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Blog - <https://tman258blog.wordpress.com/>

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Age: 27 Years, Passport No. K 1744757, Languages known: English, Hindi, Bengali

INTERNSHIP

Quality Engineering Intern, Red Hat Bangalore (4/Sept /2017- 8/Feb/2018)

I am an intern with the containerized native storage team. I have contributed by automating test cases in **python** and contributing features to the automation library developed and maintained by the team.

OPEN SOURCE EXPERIENCE

Contributor to Mozilla's Automation Projects:

I have fixed 5 bugs for mozilla_ci_tools which is a continuous integration project. The project is entirely written in **python**. Two issues dealt with exception handling. The first one was a try-catch block for KeyboardInterrupt for removing unpleasant traceback. Another one involved making a custom exception and writing tests for it to ensure proper functionality. I also enabled flake8_docstrings for the project. Finally I fixed a bug regarding scheduling of test jobs and also wrote lots of unittests for it. It was a 262 line patch. Followed it up with more testcases in another patch.

The other project was called Treeherder which is a dashboard for tests used by Mozilla's automation team. I have fixed 5 user-interface bugs which involved improving and tweaking its UI codebase written in javascript.

Wrote Tests for SuperTux:

I wrote two unittests using Google Test Framework (C++) for SuperTux.org

Research Projects (Part of M.Tech. Thesis work) :

A strategy for random sampling of sub-graphs used in graphlet kernels

A part of the work has been submitted as a research paper to a reputed journal and is in post revision stage. The code for the experiments performed was written in **python** using **igraph** library.

Nth term approximation for exponential matrix series used in heat kernels

It is implemented in **python** using **igraph**, **numpy**. The work has been submitted to a reputed journal in the form of a research paper.

Other Projects:

B.Tech. Final Year Project:

Maximum Power Point Tracking of Solar Cells and Inverter design for the same using **MATLAB**.

Training Projects:

- 1) Development of a library management system
- 2) Development of a geo-location app using json parser in PHP

WORKBENCH:

Ubuntu 14.04 LTS, IDLE for python, Eclipse for java and Firefox web developer tools.

LANGUAGES AND TECHNOLOGIES

Technical Proficiency:

1. Working knowledge of Github and git
2. Usage of tools like JSLint, grep ,flake,tox etc.
3. Basic usage of scipy modules.
4. Ability to quickly learn technologies which can be modules or **frameworks**.
5. Experience contributing to open source.

Programming languages:

Python, Javascript, C++, C, HTML, CSS, Java, PHP

EDUCATION

- **ABV Indian Institute of Information Technology & Management, Gwalior**
M.Tech Advanced Networks (2015-2017)
- **National Institute of Technology, Mizoram**
B.Tech. Electrical and Electronics Engineering (2010-2014)