

GAURAV AGRAWAL

Computer Science Engineering Undergraduate

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EXPERIENCE

Google Summer of Code

Gnome Foundation (www.gnome.org)

May 2019 – September 2019 Remote

- Worked on Gnome-Gitg application, gitg is the GNOME GUI client to view git repositories.
<https://wiki.gnome.org/Apps/Gitg/>
- Worked with mentor on design, development and integration of Algorithm tuning GUI tool.
- Worked on Meson build system, Flatpak-Builder and Gnome-builder IDE.
- Developed custom algorithm to optimise the standard git diff outputs to get a more visually distinguishable git diff outputs (under review).
- Developed code style checking pipelines, using Uncrustify, Gitlab-CI and Docker to save code maintainer's time on code review.
- Worked on C libraries libgit2-glib and libgit2 for introduction of additional functions needed for the project and related bug fixes.
- Project On:- <https://summerofcode.withgoogle.com/archive/2019/projects/6234580145668096/>

ACHIEVEMENTS

- Speaker at Gnome Asia 2019 Indonesia
- Earned GNOME foundation membership for valuable contributions and active participation in community.
- Contributed to GNOME engagement team and interviewed Panfrost project's developers.
- Placed among 1,134 Google Summer of Code 2019 successful interns worldwide.
- Speaker and organizer at GUADEC 2019 for newcomers workshop
- <https://schedule.guadec.org/speakers/338>
- Earned golden batch in python programming on Hackerrank.

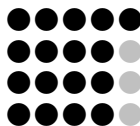
SKILLS

Open Source

Python (Proficient),Linux

C(Proficient)

Git, Object Oriented Programming



EDUCATION / COURSES

Bachelor of Technology

University Of Petroleum and Energy Studies

May 2016 – August 2020 Dehradun

Introduction To Python Programming

Microsoft Technology Associate

September 2018

HONORS & AWARDS

- Listed in Dean's list of top 10 meritorious students in Computer Science department.
- Awarded with University academic Scholarship for excellent academic performance.

STRENGTHS

Object Oriented Programming

Back-end Programming

Remote Work

Team Work

Leadership

PROJECTS

Tag based file organization system

- Designed and Implemented a file organization system based on tags instead of conventional Tree structure.
- Designed and developed a completely new approach to organizing files by replacing tree hierarchy with Hash table mechanism in C.
- Faster search (Conventional systems use B+ tree which is more expensive search then Hash Table).
- Removed dependency between files and parent directories.
- Multiple-tagging of files.
- Built-in encryption system for text files with lite custom encryption algorithm.
- Project on:-<https://gitlab.gnome.org/gaurav1999/tagBasedFile>

Analysis of basic supervised learning algorithms on phishing URL's dataset

- Analyzed 4 supervised learning algorithms for phishing URL dataset
 1. K-nearest neighbours.
 2. Decision Tree.
 3. Logistic Regression.
 4. Random Forest.
- Implemented a GUI tool to aid analyzing work.
- Used principles Of Object Oriented Programming to design the project.
- Result concluded:-
 1. Custom tuned model of Random Forest algorithm had highest accuracy among all 4.
 2. Decision Tree model performed fastest among all 4.
- Project on:-<https://gitlab.gnome.org/gaurav1999/analysisOfSupervised>