Yash SHARMA

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EXPERIENCE

MAY - AUG 2019	Google Summer of Code 2019 | Open Astronomy	GSoC Letter of Acceptance

- Worked in SunPy organization, under NDCube project, designing an API for pre-processing the solar data in an efficient manner.
- Developed a WCS agnostic pipeline for accessing the data independent of the type of WCS object for solar data analysis.
- Redesigned and refactored the internal API of NDCube, which is a package for processing N-Dimensional data.
- Wrote test suite of code coverage of 90% and re-implemented the plotting of NDCube, reducing the compile time by 40%.

MAY - AUG 2018	Google Summer of Code 2018 | Scrapinghub	GSoC Letter of Acceptance

- Worked in Scrapinghub organization, under Scrapy project for building a prototype of a minimalistic Scrapy in Asyncio.
- Designed the flow of data using the async/await paradigm of Asyncio in Python.
- Used Twisted along with Asyncio, to integrate them in Scrapy.
- Project in alpha stage due to upcoming features in Python 3.7 that would be available in the Python3.8.

DEC - JAN 2018 - 2019	Software Developer Head	Kharagpur Open Source Society

- Developed a scalable website for hosting Kharagpur Winter of Code (KWoC), a miniature of Google Summer of Code, which brought over 900+ participants registrations, across more than 25 colleges.
- Worked as a full-stack developer in building the website of KWoC, using Flask as backend, and Jekyll as the frontend.
- Initialized GitHub authentication for users to access personalized content.

TECHNICAL SKILLS

PROGRAMMING	Python, Javascript and Java Competent in C/C++
LIBRARIES / FRAMEWORKS	NodeJS, React, Django, Flask, MongoDB Numpy, Scipy, Pandas, Matplotlib,
SYSTEMS / PLATFORMS	Git, Linux, Mercurial
MARKUP / TEMPLATING	HTML, CSS, Markdown, Jekyll

EDUCATION

2017-2022	Integrated MSc course in Mathematics and Computer Science Indian Institute of Technology, Kharagpur, India

PERSONAL PROJECTS / OPEN SOURCE CONTRIBUTION

NOV - DEC 2018	Optical Text Recognition using Microsoft Azure	Text-Extractor

- Created an Text Recognition WebApp, that recognises handwritten notes/ doctor's prescription.
- Uses Microsoft's text recognition API to generate the recognised text.
- Also outputs the text recognised in a PDF for portability.

DEC 2019	Graph Visualization Algorithms	Graph-Visualization

- REST API for accessing graph algorithms as service.
- Used NodeJS, ExpressJS for writing the backend.
- API service can be used by sending a JSONified http request for accessing the API.
- Used VisJS for preparing the visual animation of graphs

CURRENT	Executive Head, Kharagpur Open Source Society	About KOSS

- Conducted Kharagpur Winter of Code, a program to introduce people to open-source development, which brought over 900+ participants.
- Conducted Linux-install fest in the campus, to promote use of Linux as the preferred operating system.
- Conducted Python Classes and Git workshop, to teach students the process of contributing to an open-source project.
- Was the full stack developer of the website of Kharagpur Winter of Code, using Flask as backend, and Jekyll as frontend.
- Conducted Python workshop during OSS Summit in Kshitij 2019,Annual College fest.