Soumya Purohit

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SKILLS:	Platforms:	Windows, Linux, OSx, GENI, OpenStack, AWS
	Programming Languages:	Java, Javascript, Python, C++, SQL, MATLAB, Shell Scripting
	Frameworks:	ReactJs, Hibernate, Spring, Tempest, Tornado, Flask
	Databases:	MySQL, Oracle
	Web Technologies:	Servlets, JSP, HTML, CSS, XML, JavaScript, Ajax
		Blockchain, Algorithms, Machine learning, Web development, OOP, Networks, Data Structures
	Tools:	Eclipse, NetBeans, Jupyter Notebook, PyCharm, Jira, Jenkins, Gerrit
	Version Control Systems:	Git

RELATED EXPERIENCE:

Internship Experience:

CUASHI

Cambridge, MA Summer Intern June 2020 - Aug 2020

- Worked on a web application and JupyterServer extension that allows easy management of files in a shared JupyterHub server and/or local JupyterHub server to sync changes using a drag and drop interface.
- Utilized React Js, Python to create an efficient application that syncs the changes from server to local using md5 checksum and REST calls that provides a user friendly interface to view synced status

AT&T

St. Louis, MO Student Intern - Technical I June 2019 – Aug 2019

• Contributed to the upstream master branch of the OpenStack *Tempest* project by resolving bug in the OpenStack community by *adding assert statements for volume pagination test to get passed*

https://review.opendev.org/#/c/674869/

- · Contributed to the downstream master branch of company by adding a YAPF failure message for tox errors
- Created a wiki page on How to debug Tempest Test using PyCharm
- · Volunteered for Project Make-It and taught microcontroller coding to high school students

Conference Presenter:

• Presented ongoing project of Blockchain for threat Intelligence Sharing in Blockchain KC Conference, Kansas City Research Assistant

University of Missouri (VIMAN Lab)

- Working on Blockchain based cooperative Threat Intelligence sharing with Incentives to incorporate a trust-based mechanism among Application Users/Providers by using Hyperledger Composer
- Designed and Implemented a dynamic web application using Flask, SQLAlchemy and sqlite3 with Hyperledger Composer and deployed in GENI cloud to allow researchers access health records in secured, transparent and immutable manner
- Worked and published a paper on Honest brokering for computation/data access with policy compliance and high-speed transactions in protected environment by incorporating AI techniques
 Valluripally, S., Raju, M., Calyam, P., Lemus, M., Purohit, S., Mosa, A., & Joshi, T. (2019). Increasing protected data accessibility for age-related cataract research using a semi-automated honest broker. *Journal for Modeling in Ophthalmology*, 2(3), 115-132.

https://www.modeling-ophthalmology.com/index.php/JMO/article/view/102

- Conducted Interviews round for Research Undergraduate Program funded by NSF
- Collaborated with a team of Neurologist and worked on Neuron Use case using JupyterHub and deployed it on NSF(National Science Foundation) Engineering Cloud
- Collaborated with a team of Biologist and Implemented and evaluated their use case using Jupyter notebook

April 2019

Aug 2018-Present

- Dockerizing existing infrastructure, to improve the lab exercise.
- Contributed to the successful introduction of cybersecurity labs in the course curriculum and performed testing of 4 cybersecurity labs focusing on DDoS, APT and APM attacks in a real test environment
- Created a demo video and hosted on Cyneuro web portal to guide neurologist, biologist and students with implementation of Jupyter Notebook on their Use cases.

Laboratory Teaching Assistant

University of Missouri(VIMAN Lab)

- Conducted recitation and lecture. Including presenting problem solutions to students, leading student problem solving sessions
- Received overwhelming appreciation from students for creating an effective learning experience that was enjoyable and motivating
- Collaborated with the neuroscience TA to effectively and efficiently contribute neuroscience students in Cyber Infrastructure.

Ypsilon IT Solutions, PVT. Ltd, Indore, India

(Trainee Engineer)

- Implemented a social networking platform that allow users to form networks in social as well as professional environment.
- Designed and Developed UI using Ajax, CSS, JavaScript.
- Implemented Spring MVC framework using Java with the help of core technologies like dependency injection and validation in an Agile environment.
- Performed Hibernate ORM to generate independent queries in the back end.

EDUCATION: University of Missouri, Columbia, MO

GPA- 3.36 Master of Science in Computer Science, August 2018

Banasthali University, Rajasthan India

GPA- 3.75 Bachelor of Technology in Information Technology, July 2018

RECOGNITIONS:

Took part in various debates and extempore competition during University Hosted many University programs as a lead anchor.

Jan 2019-Present

Jan 2018-June 2018