HIMARSHA R. JAYANETTI

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WORK EXPERIENCE

Graduate Research / Teaching Assistant @ Old Dominion University

Teaching Assistant - I was a teaching assistant for CS 120: Introduction to Information Literacy and Research (Fall 2019, Spring 2020, and Fall 2020).

Research Assistant - I am working as a research assistant with ODU and ODURF while pursuing my M.S. and Ph.D. degrees at ODU, where I worked on different Web Archiving, Social Media, Machine Learning, and Web-related research and development projects (Fall 2019 - Present).

Network Support Engineer @ Exetel Telecommunications (Pvt) Ltd

i July 2017-July, 2019

Colombo, Sri Lanka

I gained a thorough understanding of an ISP's telecommunications systems and infrastructure. I directly communicated with Australia's largest wholesale suppliers, including Telstra, Optus, AAPT, Opticomm, and NBN Co., about onsite related diagnosing. I could develop skills in troubleshooting ADSL, ADSL2+, bundled services, VDSL, Fiber Optic services (FTTP, HFC), VOIP, and mobile broadband difficulties for residential and small-to-medium business customers.

Department of National Archives - Intern @ Department of National Archives

i Jan 2016-Dec 2018

Colombo, Sri Lanka

My internship training included Desktop application development, Web design, Networking and Hardware engineering.

RECENT PROJECTS

ETD Data Enhancement and Quality Improvement @ Mining ETDs

Spring 2022

To enhance the data and improve the quality of a 500,000 ETD corpus. Exploring tools that allow figure and table extraction along with the captions from the ETDs and explore more satisfactory open-source OCR tools.

Analyzing Unnecessary Traffic In Web Archives

Spring 2022

The network activity on different archived web pages are examined while investigating the cause for these kinds of unnecessary requests.

Access Patterns of Robots and Humans in Web Archives

Spring 2022

To identify user sessions in the access logs, the Internet Archive (IA) Wayback Machine and Portuguese Web Archive access logs are used. Based on their browsing behavior, the sessions are then categorized as human or robot.

DSA @ Dark and Stormy Archives

 Jan 2021-Dec 2021

https://oduwsdl.github.io/dsa/

Developed to provide storytelling solutions to improve the understanding of web archive collections. I have contributed to several software components of the DSA project including the AIU, Raintale, and MementoEmbed.

Adverse Effects of Twitter's UI change on Web Archives @ Replaying Archived Twitter

Fall 2021

Documenting and analyzing the problems in archiving Twitter ever since Twitter forced the use of its new UI in June 2020. This study was done using the personal Twitter account of the 45th President of the United States, @realDonaldTrump, which was suspended by Twitter on January 8, 2021.

Extracting Metadata from Scanned ETDs @ Mining ETDs

Summer 2020

A conditional random field (CRF) model that combines text-based and visual features is used to extract metadata from scanned ETDs. The results were compared against the previous heuristic-based method.

M.S. Thesis

Fall 2019-Present

There are lots of things related to Instagram in the Internet Archive's Wayback Machine that we can't discover since we are unaware of the URLs. This project aims to make it easier for interested users to find archived Instagram pages.

ABOUT ME

I'm a PhD student and a self-motivated researcher looking for an internship opportunity. Seeking to leverage my technical and communications skills in the computational sciences graduate internship program.

INTERESTS

Web Archiving Web Science Social Media

Digital Preservation Data Science

Machine Learning Information Retrieval

EDUCATION

Ph.D. (Computer Science) @ Old Dominion University, Norfolk, VA

2020-Present

M.S. (Computer Science) @ Old Dominion University, Norfolk, VA

2019-Present

B.Eng (Computer Science) @ Gujarat

Technological University, India

2013-2017

ACHIEVEMENTS AWARDS

Graduated with First Class Honors
(2017) Gujarat Technological University,
India

Nehru Memorial Scholarship (2013) Indian Council for Cultural Relations and University Grants Commission of Sri Lanka

SKILLS



OUTREACH

President, ACM-W

President of the Association for Computing Machinery for Women at ODU CS (Spring, 2022))

Secretary, ACM-W
Secretary of the Association for Computing
Machinery for Women at ODU CS (Fall,
2021))

Participation, Trick or Research
Participation at the Trick or Research event at
ODU CS (2019,2020,2021))

Peer Reviewer
TPDL (2021)

Instructor, Data Science Summer Camp
An intensive training program to prepare high
school students to work with data (2021)

Volunteer, STRS Summer Camp
Teaching Assistant for Student ThinSat
Research Summer Camp for high school
students (2020)

PUBLICATIONS

Choudhury, Muntabir Hasan, Himarsha R Jayanetti, Jian Wu, William A Ingram, and Edward A Fox (2021). "Automatic metadata extraction incorporating visual features from scanned electronic theses and dissertations". In: 2021 ACM/IEEE Joint Conference on Digital Libraries (JCDL). IEEE, pp. 230–233. Garg, Kritika, Himarsha R Jayanetti, Sawood Alam, Michele C Weigle, and Michael L Nelson (2021). "Replaying Archived Twitter: When your bird is broken, will it bring you down?" In: 2021 ACM/IEEE Joint Conference on Digital Libraries (JCDL). IEEE, pp. 160–169.

ARTICLES

 Twitter Was Already Difficult To Archive, Now It's Worse! https://ws-dl.blogspot.com/2020/07/2020-07-15-twitter-was-already.html

How well is Instagram archived?

https://ws-dl.blogspot.com/2020/11/2020-11-04-how-well-is-instagram.html

 New Twitter UI: Replaying Archived Twitter Pages That Never Existed https://ws-dl.blogspot.com/2020/11/2020-11-04-new-twitter-ui-replaying.html

• Twitter Added Labels On Its Old User Interface

https://ws-dl.blogspot.com/2020/12/2020-12-08-twitter-added-labels-on-its.html

 Twitter rewrites your URLs, but assumes you'll never rewrite theirs: more problems replaying archived Twitter https://ws-dl.blogspot.com/2021/01/2020-01-22-twitter-rewrites-your-urls.html

 Creation Time and Published Time Are Not the Same: Estimating the Instagram Epoch https://ws-dl.blogspot.com/2021/02/2021-02-20-creation-time-and-published.html

• Data Science High School Summer Camp 2021

https://ws-dl.blogspot.com/2021/09/2021-09-xx-data-science-high-school.html

 Digging Up a Gem Through the Web Archives https://ws-dl.blogspot.com/2021/09/2021-09-20-digging-up-gem-through-web.html

PROFESSIONAL MEMBERSHIPS

- Acquired IESL Membership 2019, Institute of Engineers Sri Lanka https://iesl.lk/
- ACM/IEEE Member 2019-Present, National student member

OTHER ACCOMPLISHMENTS

Featured in ODU CS Video Interview @ YouTube

ä Jan, 2021

I got an opportunity to be interviewed by the College of Sciences on my research and experiences at the ODU Computer Science Department. This video was also featured on the college of science home page.

Internet Archive Highlighting #InternetArchive25 Article @ Twitter

Sep, 2021

My article, "Digging Up a Gem Through the Web Archives" got highlighted and retweeted by the Internet Archive. This blog post has been viewed more than 950 times.

Archiving Twitter Project Highlighted on DSHR Blog @ First DSHR Mention, Second DSHR Mention

Sep, 2021

The research project on archiving Twitter got highlighted twice on David S. H. Rosenthal's blog (DSHR Blog), a popular computer scientist within the computing community.

Archives-Unleashed Datathon - Montreal, QB, Canada @ Archives Unleashed Project

May, 2020

I got accepted to the Archives-Unleashed datathon which was to be held at Montreal, QB, Canada. The event was canceled due to COVID-19.