

# DEEPIKA RAMA SUBRAMANIAN

📞 7208402824 ✉ dera6803@colorado.edu 🌐 [Linkedin](#) 🐙 [GitHub](#)

## EDUCATION

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### University of Colorado Boulder

Doctor of Philosophy in Information Science

Advisor: Dr. Leysia Palen

August 2021 - May 2026 (expected)

### Virginia Tech

Master of Science in Computer Science

Advisor: Dr. Tanushree Mitra

Thesis Title: Role of Social Media and Computing in Organizations aiding Asylum Seekers and Undocumented Migrants in the United States

August 2018 - August 2020

CGPA: 3.62

### National Institute of Technology, Tiruchirappalli

Bachelor of Technology, Computer Science and Engineering.

July 2010 - June 2014

CGPA: 8.01

## RESEARCH INTERESTS

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Informatics of Immigration, Public Health, Mis/Disinformation, Computer-Supported Cooperative Work, Human-Computer Interaction.

## SKILLS

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UX Analytics Techniques: Semi-Structured Interviews, Surveys, Qualitative Coding and Analysis, Observation, Wireframes, Prototyping

Languages: C#, Python, T-SQL, MySQL, PostgreSQL, Java, Kotlin

Packages: pandas, scikit-learn, gensim, numpy, AWS MapReduce, scrapy, BeautifulSoup

## ACADEMIC AND PROFESSIONAL WORK EXPERIENCE

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### Graduate Research Assistant

Department of Information Science, University of Colorado, Boulder, CO

August 2022 - Present

- Collected and analyzed Twitter data using mixed-methods to explain the spread of mis/disinformation regarding the COVID-19 vaccine, disinformation that weaponized women's health concerns

### UX Research Intern

Meta Platforms Inc., Menlo Park, CA

May 2022 - Aug 2022

- Performed qualitative interviews with 30 Creators with Disabilities across the 6 disability cohorts
- Focused on understanding how these Creators were using Instagram and Facebook Reels
- Worked on understanding the barriers and facilitators in the Reels creation process

### Graduate Teaching Assistant

Department of Information Science, University of Colorado, Boulder, CO

August 2021 - May 2022

- INFO 2201: Computational Reasoning 2 - Teaching Assistant to Dr. Jason Zietz (Spring 2022)
- INFO 1201: Computational Reasoning 1 - Teaching Assistant to Dr. Jason Zietz (Fall 2021)

### Software Engineer

Amazon.com, Bellevue, WA

October 2020 - June 2021

- Worked on building and maintaining services supporting merchant fulfilled shipping

### Graduate Research Assistant

Computer Science Department, Virginia Tech, Blacksburg, VA

May 2020 - August 2020

- Performed open-coding on the interview data from organizations responding to U.S. Immigration Crisis

- Qualitatively analysed social media feeds of participating organizations

### **Graduate Teaching Assistant**

August 2018 - May 2020

*Computer Science Department, Virginia Tech, Blacksburg, VA*

- CS 5024: Ethics and Professionalism in Computer Science - Teaching assistant to Dr. Mohammed Farghally (Spring 2020)
- CS3744: Introduction to GUI Programming - Teaching assistant to Dr. Kurt Luther (Fall 2019)
- CS4604: Database Management Systems - Teaching Assistant to Instructor Richard Quintin (Spring 2019)
- CS4604: Database Management Systems - Teaching Assistant to Dr. B. Aditya Prakash (Fall 2018)

### **IT Intern- Mobility**

Summer 2019

*Lam Research, Fremont, CA*

- Independently designed and built an end-to-end mobile application for managing schedules of field engineers at Lam Research using Xamarin.Forms
- Developed ASP .NET REST Apis to perform CRUD operations

### **Software Engineer**

June 2014 - June 2018

*Schlumberger, Pune, India*

- Worked towards building and maintaining Avocet Mobile using .NET Framework and Xamarin
- Developed new workflows, major UI components and improved data sync
- Worked on enhancing performance on business logic components
- Used Object Oriented Design Patterns extensively to refactor legacy code

## **PUBLICATIONS**

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- Juneja, P., **Rama Subramanian, D.** and Mitra, T., 2020. Through the Looking Glass: Study of Transparency in Reddit's Moderation Practices. Proceedings of the ACM on Human-Computer Interaction, 4(GROUP), pp.1-35.

## **GRANTS, HONORS AND PROFESSIONAL FELLOWSHIPS**

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### **CRA-W Graduate Cohort for Women Workshop**

April 2021

*Computing Research Association*

## **TALKS AND GUEST LECTURES**

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### **The Overground Railroad: The Organizations Supporting Asylum-Seekers During the U.S. Immigration Crisis**

Spring 2022, Fall 2022

- Invited Guest Lecture for INFO 2131: Information Ecosystems instructed by Dr. Leysia Palen

## **ACADEMIC SERVICE**

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### **Graduate Student Association President, Information Science**

2022-2023

### **Student Volunteer, ACM CHI 2022 (Virtual)**

May 2022

## **PROJECTS**

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### **Master's Thesis: Organizations Responding to U.S. Immigration Crisis Using Online Tools**

September 2019 - August 2020

- Used qualitative methods to understand the use of socio-technical systems by non-profit and grassroots organizations responding to the U.S. Immigration Crisis for my Masters' thesis
- Conducted interviews with 19 participants from 15 non-profit and grassroots organizations to understand how they used online systems
- Analysed responses from participants to understand the opportunities and challenges faced by organizations while using these systems for organizing, coordinating, raising awareness and soliciting donations

## **Cold-Start Link Prediction in Temporal Graphs using Graph Embedding** Spring 2019

- Modified the Node2Vec algorithm to create new graph embeddings (called friend of friend) for link prediction for cold-start nodes (new additions to a temporal graph with only few links) using Python
- Tested new embeddings vs unmodified embeddings and learnt the new embeddings are consistently better at link prediction in case of cold start nodes, and general nodes

## **An Analysis of Disease on the Appalachian Trail** Fall 2019

- Analysed the possibility of creating an application that can track and inform individuals about diseases on thru hiking trails
- Proposed a 3D model that will help create and evaluate disease tracking systems in the wild
- Evaluated some existing disease tracking systems on this model and note if they are able to be easily ported into the wild

## **Stroubles Creek Rejuvenation Visualization** Fall 2019

- Supported STREAMLab at Virginia Tech for stream rehabilitation of Stroubles Creek
- Designed and created interactive visualizations (using D3.js) for the lab to monitor meteorological data, water quality conditions data like dissolved oxygen levels, turbidity, conductivity, pH, temperature and the height of the stream