

# ANIRBAN MUKHOPADHYAY

Build systems that facilitate the future of work

@ anirban@vt.edu

+1 540-449-3700

Blacksburg, Virginia

in <https://www.linkedin.com/in/anirban-mukhopadhyay-b44648143/>

## EDUCATION

### PhD in Computer Science

#### Virginia Tech

Jan 2021 - Present

✓ GPA: 4.0/4.0

- Research Assistant at the **Crowd Intelligence Lab** with Dr. Kurt Luther
- Relevant Coursework** - Human-AI Interaction, Data Analytics, Deep Learning, Usability Engineering, Computer Supported Collaborative Work

### Bachelor of Engineering in Computer Science

#### Jadavpur University, India

Jul 2014 - Jun 2018

✓ GPA: 8.94/10.0

## INDUSTRY EXPERIENCE

### Software Engineer

#### Microsoft India, R&D

Jun 2018 - Dec 2020

Hyderabad, India

- Full-stack developer in the *SharePoint* team
- Contributed to the improvement of fundamentals of the service including reliability (reached the target of four 9s) and API performance
- Developed and tested UX for filtering in SharePoint lists using React
- Completed PoC for auto-tagging of content using Azure Cognitive Services and fastText

### Software Development Engineer Intern

#### Amazon India, R&D

May 2017 - Jul 2017

Hyderabad, India

- Created a migration tool to move data from relational database (Aurora DB) to NoSQL database (Dynamo DB)
- Required to use Service Oriented Architecture, Spring dependency injection, Git and software design patterns

## AWARDS AND ACHIEVEMENTS

- Regional Hackathon winners at Microsoft Office India during 2018 and 2020 for projects on SharePoint search features
- University Medal for Best Student Project in the Department of Computer Science, Jadavpur University sponsored by Tata Consultancy Services Ltd (TCS)
- Special Mention Award for project at the Summer School on Computer Vision, Graphics and Image Processing, 2016 organized by Indian Statistical Institute, Kolkata
- Selected for the prestigious Kishore Vaigyanik Protsahan Yojana Scholarship 2012 and Jagadis Bose National Science Talent Search Scholarship 2014, funded by Government of India. The scholarships are aimed at "providing a range of educational opportunities to the promising student scientist"

## SKILLS

**Languages:** Python, C#, R, Java, JavaScript, C, C++, Powershell scripting

**Databases:** MySQL, SQLServer, PostgreSQL, DynamoDB

**Frameworks** Pandas, Numpy, Scikit-Learn, Seaborn, Matplotlib

**Web development:** Django, React, Heroku app hosting

**Design:** Wireframing, Contextual Analysis, web application prototypes

**Qualitative research:** Survey Design, Semi-structured interview and Thematic Analysis

## RESEARCH PROJECTS

### Collaboration and competition in Open Source Intelligence (OSINT) analysis

Developed a web app for students to participate in Capture the Flag (CTF) events to discover, archive, verify and report possible social media misinformation. Built REST API endpoints to extend the platform for integrating new OSINT tools. The paper will be submitted to CSCW 2022

### Expert-led crowdsourcing in OSINT Investigations

Developed a framework for students trained in information discovery and verification skills to augment the investigative practices of journalists, law enforcement officers and human rights activists. In preparation for CHI 2023

### Study and improvement of accuracy in the Handwritten Indic script recognition problem

Used texture and frequency based features along with CNN. Papers published in Mukhopadhyay et al. 2020 and 2018 [1, 2]

## PUBLICATIONS

[1] Mukhopadhyay, Anirban, et al. "A study of different classifier combination approaches for handwritten Indic Script Recognition." *Journal of Imaging* (2018): 39.

[2] Mukhopadhyay, Anirban, et al. "Handwritten Indic script recognition based on the Dempster-Shafer theory of evidence." *Journal of Intelligent Systems* 29.1 (2020): 264-282.