ANIRBAN MUKHOPADHYAY

Build systems that facilitate the future of work

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EDUCATION

PhD in Computer Science

Virginia Tech

Jan 2021 - Present | GPA: 3.95/4.0

- Research Assistant at the Crowd Intelligence Lab with Dr. Kurt Luther
- **Relevant Coursework -** Human-AI Interaction, Data Analytics, Deep Learning, Usability Engineering, CSCW
- Expected graduation date - 05/2025

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

PhD Software Engineer Intern

Microsoft

May 2022 - August 2022 | Redmond, US

- Part of the Mixed Reality Design and UX Research team
- Explored fluent 3D map interactions for Hololens 2
- Took a human-centered approach and developed prototype using Unity and MRTK

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

Game development: Unity, MRTK

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

- Designed 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

Expert-led crowdsourcing for combating online misinformation

Designed 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

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

- Applied 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.