

Chandrika Mukherjee

  | Portfolio - <https://chandms.github.io/cmukherj@purdue.edu> | +1 765-746-9637

EDUCATION

PURDUE UNIVERSITY

West Lafayette, IN, USA
Exp Graduation - 2027
Ph.D. CS
CGPA: 3.95/4.00

PURDUE UNIVERSITY

West Lafayette, IN, USA
2021-2023
M.S. CS
CGPA: 3.83/4.00

NIT DURGAPUR

Durgapur, WB, India
2015-2019
B.Tech in Computer Science
and Engineering
CGPA: 9.16 /10.0

SKILLS

PROGRAMMING

Experienced:

C++ • Python • React
• Java • C

Intermediate:

C# • HTML • CSS
• Javascript • SQL
• GraphQL

Familiar:

PHP • PL/SQL • Shell

VERSION CONTROL

Git/Github • Mercurial

XR

Unity3D • MRTK • A-Frame

COURSEWORK

GRADUATE

- Data Communication and Computer Networks
- Algorithm Design, Analysis, and Implementation
- Database Systems
- Security Analytics
- Data Mining
- Multimedia Networking and Operating Systems
- Programming Languages
- Information Security
- Independent Study involving security and privacy of XR (Advisor - Dr. Berkay Celik)

EXPERIENCE

META | SOFTWARE ENGINEER INTERN (16TH MAY 2022 - 5TH AUG 2022)

| New York, USA

Worked in Messaging Health Signals Intelligence team under Messenger org. Developed a new user interface designed to visually represent the data flow within various privacy assets across Meta. This tool enables team owners to easily visualize the trajectory of data, such as from APIs to stored procedures and ultimately to sensitive tables. Tech Stack - React, GraphQL, PHP, Python.

HSBC | SOFTWARE ENGINEER (8TH JUL 2019 - 11TH AUG 2021)

| Pune, Maharashtra, India

Worked as a Full-Stack Java developer in a team under Wealth and Personal Banking department. Tech Stack - Java, DB2, Spring Batch. Participated in code management activities using Git during production releases. Supported the production batch for four client regions (HK, SG, US, and CA).

RESEARCH

PURSEC | Purdue University, IN, USA

| Spring 2022 – Present

Advisor: Dr. Berkay Celik

Project: Security and Privacy of Extended Reality Systems (XR). Working with HoloLens2, Quest2, Unity with MRTK and WebVR frameworks. Designed group pairing protocol for mixed reality devices using data from eye, head, hand, IMU sensors. Designed user studies for the ongoing above and another WebVR based project to understand user perception of different UI dark patterns.

MOBILE COMPUTING AND NETWORK RESEARCH GROUP

| NIT Durgapur, WB, India
July 2017 - May 2019

Advisor: Dr. Subrata Nandi and Dr. Sujoy Saha

Project: Visualise Summarization of Crowdsourced GIS Objects and Corresponding Statistics Offline during a Post Disaster Situation. [[Surakshit Dashboard Repo](#)]

CNERG | IIT Kharagpur, WB, India

| Research Intern (May 2018 – June 2018)

Advisor: Dr. Sandip Chakraborty

Project: Peer-to-Peer Live Video Streaming based on Scalable Video Coding. [[Repo](#)]

PUBLICATION

[1]. Partha Sarathi Paul, Chandrika Mukherjee, Bishakh Chandra Ghosh, Sudipta Pandit, Sujoy Saha, Subrata Nandi "On Designing a Fast-Deployable 'Localized' GIS Platform for using 'Offline' during Post-Disaster Situation", 20th International Conference on Distributed Computing and Networking (ICDCN).

TEACHING

GRADUATE TEACHING ASSISTANT

EPICS and VIP

[Fall 2022, Spring 2023, Fall 2023]

ENGR 133 - First Year Engineering
Introduction to Excel, Python, MATLAB

[Summer 2023]