

Education

2023	Ph.D. in COMPUTER SCIENCE
2018	University of Illinois at Chicago , Illinois, USA Supervisor: Dr. Debaleena CHATTOPADHYAY GPA: 4.00/4.00
2018	Bachelor of Science in COMPUTER ENGINEERING (SOFTWARE)
2013	Amirkabir University of Technology (Tehran Polytechnic) , Tehran, Iran Thesis: “ <i>Design & Implementation of a Recommender System to Recommend Judges for Scientific Papers According to the Paper Title & the Authors’ Collaboration Graph</i> ” using <i>Python & JS</i> (Source Code) Advisor: Prof. Maryam AMIR HAERI GPA (overall): 3.26/4.00

Skills and Abilities

- Python, JavaScript, .NET, PHP, Java, C/C++, C#, HTML, CSS, SASS, XSLT, XML, React, React 360 & Laravel
- Software Engineering, Cloud Computing, Networks and Related Skills:
 - Microsoft **Azure**, managing code version with **Azure Repos**, big data analytics with **Azure Databricks**, and database management using **Azure SQL**
 - Amazon Web Services (**AWS**), data modeling with **DynamoDB**, writing **Lambda Functions** and **Python scripts** to manage AWS resources using **BOTO SDK** and also worked with **AWS CLI**
 - Progressive Web Applications, with **Google’s guidelines**
 - UI/UX prototyping, with **Adobe XD**, **Axure**, and **Figma**
 - Report and document generation with \LaTeX , Microsoft Office tools and other web-based tools
 - **MongoDB** (Document-based NOSQL DB), **MySQL**, **PostgreSQL** and usage in multiple applications
 - Design and photo editing using **Adobe Photoshop**, **Adobe Illustrator**, **Adobe After Effect**
 - Developing computer graphics using **OpenGL** and **glut**
 - Developing virtual reality environments with **Unity** & creating 3D objects using **Blender**

Experience

SUMMER 2022	UX Researcher and UI Developer Intern Steelcase - Grand Rapids, MI, USA I worked closely with Steelcase interior designers all across the globe to find out their user needs and created a prototype of <i>Steelcase Generative Space Planner</i> to help all designers with zoning of their .dwg drawings in a widely accessible software.
SUMMER 2021	Data Engineering Intern Slalom Consulting, LLC Slalom Build - Chicago A team of interns and I worked with a group of oncologists and data scientists to create an <i>Oncologist Dashboard</i> to manage patients and their medications, as well as recommending treatments and visualizing risks. I designed the table structure, and implemented the entire database in AWS DynamoDB.
CURRENT AUG 2018	Graduate Research Assistant University of Illinois at Chicago UIC Human-computer Interaction Lab Debaleena Chattopadhyay I have been conducting HCI research for my Ph.D. thesis on how older adults learn to use mobile applications and how we can improve their experience.
Summer 2020	Innovative Data Exploration Laboratory (InDeX Lab) Abolfazl Asudeh I designed & implemented CovidInsights , an interactive web application to help get insightful information about the current COVID-19 situation at any geographical location, as well as insights about how the situation is going to evolve in the near future, in said location.

CURRENT	Graduate Teaching Assistant
AUG 2018	<i>University of Illinois at Chicago</i> <i>Dale Reed</i> - Program Design II with C++ <i>David Hayes</i> - Program Design I with Python <i>Mark Hallenbeck</i> - Program Design II with C++ <i>Debaleena Chattopadhyay & Nikita Soni</i> - User Interface Design and Programming
FEB 2018	UI Designer and Front-End Developer
FEB 2017	<i>Papion Software Group, Tehran, Iran</i> I designed and implemented the user interface of <i>Papion Chef</i> or <i>Sarashpaz Papion</i> web application, which is the first cooking social media in Iran with more than 1M users.
SEP 2016	Website Design Intern
JUNE 2016	<i>Mahak Charity Organization, Tehran, Iran</i> I collaboratively designed and implemented an online font store to help collect money for their cause.

Publications

- **Sharifi, H.,** Chattopadhyay, D. (2023). Experience modeling how older adults learn new features (or do not) in mobile technology use. Submitted on July 2022.
- **Sharifi, H.,** Saeed, D., Asudeh, A., & Das, G. (2021). CovidInsights: A Data Exploration System for Providing covid-19 Insights by Similar Examples. Archived.
- Chattopadhyay, D., Ma, T., & **Sharifi, H.,** Martyn-Nemeth, P. (2020). Computer-Controlled Virtual Humans in Patient-Facing Systems: Systematic Review and Meta-Analysis. doi: 2020/7/e18839
- Ma, T., **Sharifi, H.,** & Chattopadhyay, D. (2019). Virtual Humans in Health-Related Interventions: A Meta-Analysis. CHI Extended Abstracts. doi: 10.1145/3290607.3312853

Open-source Projects

- **ESoSearch**, Design & implementation of a mobile-friendly web application for older adults to help them search for social events during COVID-19 lockdown. ([Source Code](#)) ([Description](#))
- Design & implementation of a virtual reality environment for experimenting with **pointing and object selection** using VR controllers, in 3 different walking conditions using *Unity & Blender* ([Source Code](#)) ([Description](#))
- **UIC Grove**, Design & implementation of an interactive virtual reality simulation of a Carnival on UIC Grove, Chicago using *Unity & Blender* ([Source Code](#)) ([Description](#))
- **WanderFree**, Design & implementation of a simulated virtual reality application on web for low-budget traveling using *React 360* ([Link](#))
- **Candy Crush**, Implementing a web-based Candy Crush game using *JavaScript* ([Link](#))
- **Titanic (Machine Learning form Disaster)**, competed in this legendary ML competition by creating a model that predicts which passengers survived the Titanic shipwreck using *R* ([Link](#))
- **Internet Engineering**: Client side and server side of AUT Game Studio's website using *Laravel, PHP, JS, HTML, CSS* ([Link](#))

Activities, Honors, and Hobbies

- **Publicity Chair of Graduate Society of Women Engineers (GradSWE)** - University of Illinois at Chicago (2022-now)
- **Vice president of Persian Students Association** - University of Illinois at Chicago (2019-2021)
- Member of the **Middle East Music Ensemble** - University of Chicago (2019-now)
- **Elected as Member of Students' Union** - Computer Engineering & Information Technology Department, Amirkabir University of Technology (2014)
- *Ranked top 0.6%*, Nationwide University Entrance Exam Among All Students in Mathematics and Physics (approximately 230,000, 2013)
- In my free time, I enjoy hiking, bike riding, and swimming.