

Omar Khan

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Education

University of Illinois Urbana-Champaign

PH.D. IN COMPUTER SCIENCE (CONCENTRATION: HUMAN-COMPUTER INTERACTION);
CERTIFICATE IN INFORMATION ACCESSIBILITY DESIGN AND POLICY

Champaign, IL
Expected August 2027

University of Illinois Urbana-Champaign

B.S. IN COMPUTER SCIENCE + CROP SCIENCES

Champaign, IL
December 2021

Skills

Programming Languages

Python, Java, JavaScript, R, C++, Swift

Technologies

HTML, CSS, Git, LaTeX, MAXQDA, Qualtrics, SQL, MongoDB, Neo4J, Docker, Kubernetes, Figma, MS Office

Frameworks

React, Next.js, Matplotlib, NumPy, Pandas, NLTK, SQLAlchemy, Flask, d3.js, Hadoop, Spark

Research Methods

Usability Testing, A/B Testing, Thematic Analysis, Interview Design, Semi-Structured Interviews, Affinity Diagrams, Co-Design, Survey Design, Prototyping, Experimental Design

Professional Experience

Viasat

SOFTWARE ENGINEER INTERN (GLOBAL INFRASTRUCTURE TEAM)

- Designed and implemented a Slack app with 2 other interns using Python (frontend), SQLAlchemy, and Kubernetes (backend) that allows users to manually archive older Jira projects and automatically archive them by a given date

Carlsbad, CA

May 2021 - Aug. 2021

L'Oreal U.S.A.

SOFTWARE ENGINEER EXTERN

- Collaborated with a team of 4 externs to implement a data-driven solution to reduce plastic usage in L'Oreal product packaging

New York, NY

Jun. 2020 - Aug. 2020

Research Experience

University of Illinois Urbana-Champaign

GRADUATE TEACHING AND RESEARCH ASSISTANT; ADVISOR: DR. JOOYOUNG SEO

- Led a mixed-methods global study with BLV researchers (survey = 57; interviews = 15) using activity theory to examine research tool barriers, revealing 17% task delegation rate and critical gaps in data visualization tools (2.58/5 difficulty).
- Synthesized findings through reflexive thematic analysis to develop systemic design recommendations addressing workflow contradictions across literature review, analysis, and dissemination stages.

Urbana, IL

Aug. 2022 - Present

National Center for Supercomputing Applications

RESEARCH ASSISTANT

- Developed the initial software design specification for a mobile app aimed to create a marketplace to provide food banks with the means to procure fresh produce from farmers at a reduced cost, aiming to reduce food waste and insecurity

Urbana, IL

Aug. 2021 - Dec. 2021

University of Illinois Urbana-Champaign

UNDERGRADUATE RESEARCH ASSISTANT

- Designed and implemented a computerized exam on pipelining and cache analysis for CS 233: Computer Architecture through UIUC's open-source exam distribution and testing environment, using Docker, HTML, CSS, JavaScript, and Python

Urbana, IL

May 2019 - Aug. 2019

Leadership Experience

PACE - Center for Independent Living

DIRECTOR, BOARD OF DIRECTORS

- Facilitating peer support groups for elderly populations with visual impairments and conducting research on effective practices in mobile phone accessibility for those with visual, motor, and auditory impairments

Urbana, IL

Aug. 2023 - Present

Publications and Presentations

CONFERENCE AND JOURNAL PUBLICATIONS

- Omar Khan** and JooYoung Seo. 2025. "Sighted People Have Their Pick Of The Litter": Unpacking The Need For Digital Mental Health (DMH) Tracking Services With And For The Blind Community. In Proceedings of the Extended Abstracts of the CHI Conference on Human Factors in Computing Systems (CHI EA '25). Association for Computing Machinery, New York, NY, USA, Article 27, 1–13.
- Alex Atcheson, **Omar Khan**, Brian Siemann, Anika Jain, and Karrie Karahalios. 2025. "I'd Never Actually Realized How Big An Impact It Had Until Now": Perspectives of University Students with Disabilities on Generative Artificial Intelligence. In Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems (CHI '25). Association for Computing Machinery, New York, NY, USA, Article 42, 1–22.