

# Samsara Counts

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## EDUCATION

### GEORGE WASHINGTON UNIVERSITY

#### BS IN COMPUTER SCIENCE AND MATHEMATICS

Aug. 2015–May 2019  
Minor in Creative Writing  
School of Engineering & Applied Science  
Cum. GPA: 3.5 / 4.0  
Major GPA: 3.63 / 4.0

## ONLINE PROFILES

Github [samsaranc](#)  
LinkedIn [samsaranc](#)

## COURSEWORK

Machine Learning  
Bias in Artificial Intelligence  
Computer Vision  
Graph Theory  
Algorithms and Data Structures  
Continuous Algorithms  
Operating Systems  
Software Engineering  
Real Analysis  
Probability for Computer Science  
Linear Algebra  
Abstract Algebra I & II  
Theory of Computing

## SKILLS

### PROGRAMMING

Python • Java • C • MATLAB • Bash  
L<sup>A</sup>T<sub>E</sub>X • GAP • HTML • SQL • CSS

### SOFTWARE

git • PyTorch • Mathematica • Django

### SPOKEN LANGUAGES

German (intermediate) • English (native)  
Spanish (intermediate)

## MAJOR PROJECTS

### HACKITAL

Led a 500-person hackathon to engage the community in developing tech solutions to mitigate online harassment

### THE DEAN'S COUNCIL OF WOMEN IN TECHNOLOGY

Founded DCWiT, a SEAS Dean's initiative supporting GW women pursuing STEM

## WORK EXPERIENCE

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER, ALEXA AI

September 2020–Present | Seattle, WA

- Develop and maintain an Alexa AI-wide service to detect private data
- Collaborate with scientists to deploy and monitor ML models for private data

### MAX PLANCK INSTITUTE FOR SOFTWARE SYSTEMS | INTERN

October 2019–August 2020 | Saarbrücken, DE | Advisor: Krishna Gummadi

- Studied publication norms and other interventions to incorporate fairness, accountability, and ethics in the R&D process in Computer Science
- Investigated ways to incorporate fairness and diversity into AI algorithms

### MICROSOFT RESEARCH | RESEARCH INTERN

Summer 2018 | Cambridge, MA | Advisor: Henry Cohn

- Used group theory to speed up matrix multiplication algorithms
- Solved an optimization problem over the search space of finite groups in GAP

### UNIVERSITY OF MARYLAND COLLEGE PARK | RESEARCH INTERN

Summer 2017 | College Park, MD | Advisor: John Dickerson

- Designed a multi-armed bandit algorithm to ensure diversity in a hiring process
- Analyzed admissions data to investigate the possibility of bias in past decisions
- Used deep reinforcement learning to get matching policies for kidney exchange

### LEARNING TECHNOLOGIES RESEARCH LAB | RESEARCH ASSISTANT

Summer 2016 | Washington, DC

- Developed a website with Java for adults to improve their English literacy
- Identified and cleaned datasets for training NLP algorithms in Python

### GW COMPUTER SCIENCE DEPT. | TEACHING ASSISTANT

August 2016–December 2018 | Washington, DC

- Led a lab section for Intro. to Software Dev. and helped with in-class exercises for Discrete Structures II, Algorithms & Data Structures, and Intro. to C.S.

## PUBLICATIONS

2019 The Diverse Cohort Selection Problem: Multi-Armed Bandits with Varied Pulls  
2018 Characterizing the Visual Social Media Environment of Eating Disorders

## AWARDS

2019	CBYX for Young Professionals Fellow	U.S. Congress & German Bundestag
2019	Collegiate Award, Honorable Mention	NCWIT
2018	Best Student Paper Presentation	Appl. Imagery & Pattern Rec. Workshop
2018	Google Lime Scholar	Google
2018	Collegiate Award, Honorable Mention	NCWIT
2018	GW Undergrad. Research Award	GW Office of the VP for Research
2018	Tomodachi Kakehashi Scholar	US-Japan Council
2017	HackHarassment Grant	Intel & the Born This Way Foundation

## LEADERSHIP

2016-2019	Vice President	GW Assoc. for Computing Machinery
2016-2019	Mentor	SEAS Student Peer Advisory Network
2016-2019	Mentor	GW Women in Computer Science