

Kartikeya Kandula

☎ 517-775-5639
✉ kandula.kartikeya@gmail.com
Site: kartikyakandula.com/

Education

- Ongoing **Princeton University**, *Center for Information Technology Policy (CITP)*
Ph.D. in Computer Science in progress
Advisor: Prof. Jonathan Mayer
Research interests: Antitrust and Competition, Online Speech, Privacy
- 2019 - 2020 **University of Michigan**, *College of Engineering*
Master of Science in Engineering, Computer Science Engineering, **GPA: 3.80**
- 2016 - 2019 **University of Michigan**, *College of Engineering*, Summa Cum Laude
Bachelor of Science in Engineering, Computer Science Engineering, **GPA: 3.81, Major GPA: 3.90**

Research

- Ongoing **Google Self-Preferencing Study**, *In Progress*
• Contributing evidence as to whether a subset of Google's marketing practices are anti-competitive
- Ongoing **Search Ballot Design Influence on Consumer Decisions**, *In Progress*
• Researching the effects that search engine ballots have on promoting digital competition
- Ongoing **Online Content Moderation Bias Study**, *In Progress*
• Investigating if Facebook content moderators exhibit inherent bias in moderating flagged posts
- Winter 2019 **UnclearBallot: Automated Ballot Image Manipulation**, *Conference Publication*
• Implemented attack showing that post-election image audits can be reliably defeated by an attacker

Work Experience

- Summer 2020 **Microsoft**, *Software Engineering Intern*, Seattle
• Worked on Azure App Services UX team responsible for the 3rd most used service on Microsoft Azure
• Organized effort to normalize on accessibility across all Azure App Services experiences
• Created comprehensive end-to-end experience for deploying GitHub Actions integrated applications
• Developed single experience for all deployment tasks, enabled GitHub Actions container deployments
- Summer 2019 **Microsoft**, *Software Engineering Intern*, Seattle
• Worked on Excel desktop application for Apple macOS as part of Experiences and Devices organization
• Implemented and delivered new file recovery system that led to 13% drop in force quit rate for customers
• Converted file recovery dialog from interaction blocking modal window to message bar within application
- Summer 2018 **J.P. Morgan Chase**, *Technology Analyst Intern*, Chicago
• Engineered integrated portal for corporate loan providers with Java Spring web application framework
• Implemented GraphQL API to consolidate data from existing microservices and systems utilizing MyBatis to couple representational data objects with templated stored procedures and SQL statements
• Served as product manager, conducted customer interviews to develop wireframes for front-end design
• Employed Elasticsearch framework to create responsive search functionality for back-end of application

Publications

- Oct. 2019 **UnclearBallot: Automated Ballot Image Manipulation**, Matthew Bernhard, Kartikeya Kandula, Jeremy Wink, J. Alex Halderman, *Proceedings of the 4th International Joint Conference on Electronic Voting (E-Vote-ID '19)*

Speaking Engagements

- Oct. 2020 **Guest lecturer, UM EECS 183, “Tech Policy and Privacy”**
- Invited to give talk to over 1000 first year computer science students as part of lecture series aimed at exposing students to nontraditional topic in tech
 - Covered topic included why privacy matters, how users are tracked across the web, the causes and effects of algorithmic bias, and difficulties with regulation of tech
- Sept. 2020 **Panel member, UM EECS Speaker Series, “Opportunities for Higher Education in EECS”**
- Invited to speak on panel of recent graduates from the University of Michigan EECS Department
 - Had public conversation with undergraduate students interested in pursuing graduate school
- Oct. 2019 **Speaker, E-Vote-ID 2019, “UnclearBallot: Automated Ballot Image Manipulation”**
- Presented research to leading election security experts at The International Conference for Electronic Voting in Bregenz, Austria
- Aug. 2019 **Speaker, DEF CON 27, “UnclearBallot: Automated Ballot Image Manipulation”**
- Presented research at largest hacking conference in the United States. The presented work was included in a report released by Representative Jackie Speier and Senator Ron Wyden at the U.S. Capitol Congressional Auditorium and Atrium that detailed findings to election administrators and policymakers

Teaching

- Spring 2020 **Elementary Programming Concepts, Graduate Student Instructor, 800 students**
- Fall 2019 **Elementary Programming Concepts, Graduate Student Instructor, 1000 students**
- Fall 2018 **Discrete Mathematics, Undergraduate Teaching Assistant, 800 students**

Extracurricular Activities

- 2018 - 2019 **MPowered Entrepreneurship, Director**
- As director of University of Michigan’s oldest and largest entrepreneurship organization, established startup consulting group and acquired portfolio of client companies including StockX, the fastest-growing startup in Michigan
- May 2018 **Capital One Software Summit Hackathon, 1st place**
- Developed web application, Kickback, that consolidates a user’s financial history and uses previous transactions to recommend deals through a collaborative filtering engine
 - Presented to panel of Capital One Executive Vice Presidents and won competition of over thirty teams

Awards & Honors

- 2019 **Summa Cum Laude, UM-Engineering, graduated with highest honors**
- 2019 **James B. Angell Scholar, UM Board of Regents, awarded for superior scholastic achievement**
- 2016 - 2019 **Dean’s list, UM-Engineering, honor received every semester of undergraduate studies**
- 2016 - 2019 **University Honors, UM-LSA, honor received every semester of undergraduate studies**
- 2018 **Inducted IEEE-Eta Kappa Nu, Beta-Epsilon chapter, national EECS honors society**
- 2017 **J.P. Morgan Sponsored Scholarship, J.P. Morgan Chase**
- 2016 **National Merit Scholarship, National Merit Scholarship Corporation**