

EXPERIENCE

- **University of Maryland, College Park**
Research Assistant, Human Computer Interaction Lab (HCIL) December 2017 - Present
 - **Area:** Usable Privacy and Security.
 - **Advisors:** Prof. Michelle Mazurek (PhD, CMU), Elissa Redmiles (Research Scholar).
 - **Work:** Research focuses on understanding whether users make rational security decisions and improving the quality of security advice via qualitative, quantitative, and data science projects.
- **Indraprastha Institute of Information Technology, Delhi (IIIT-D)** Delhi, India
Undergraduate Researcher, PreCog Research Group December 2016 - Present
 - **Area:** Spam Detection on Social Networks.
 - **Advisors:** Prof. Ponnurangam Kumaraguru (PhD, CMU), Srishti Gupta (Research Scholar).
 - **Work:** Understanding complex networks like Facebook and Twitter using tools from a privacy and security perspective using Data Science, Computational Social Science, Social Computing, Machine Learning, and Natural Language Processing .
 - **Collaborators:** Prof. Mustaque Ahamad (Georgia Tech), Dr. Payas Gupta (Pindrop, Atlanta), Dr. Manish Gupta (Microsoft Research, Hyderabad).
- **EngineChief, Iron Play Technologies Pvt. Ltd.** Delhi, India
Software Engineering Intern - Ruby on Rails June 2016 - August 2016
 - **Inventory Management System:** Using Ruby on Rails with PostgreSQL, designed and implemented a web interface and back end for tracking inventory.

EDUCATION

- **Maharaja Agrasen Institute of Technology** GGSIP Univ., Delhi, India
Bachelor of Technology in Information Technology; Aggregate Percentage: 76.6% 2014 - 2018
- **Springdales School, Pusa Road, New Delhi** Delhi, India
Central Board of Secondary Education (CBSE); 92.6% aggregate in Senior Secondary 2014

ACHIEVEMENTS

- **Smart India Hackathon 2017, MHRD, Government of India:** Our team of 6 members won the first prize in AICTE (out of 28 ministries) with a cash prize of \$3134 by Gov. of India and MAIT. Team selected to implement the project for the AICTE over a period of 6 months in collaboration with IIIT, Bangalore.
- **TCS CodeVita:** Team lead for a team of two. Ranked 731 out of 65,000 teams pan-India in round 1.
- **Association for Computing Machinery (ACM):** Received 'Recognition of Service Award' as founding Chair of a 80+ strong team of ACM-MAIT Student Chapter.
- **Department's top 5:** Mentioned in the top 5 student achievers on MAIT's IT department's website (link).

PUBLICATIONS

- Redmiles, E.M., Morales, M., Maszkiewicz L., Stevens R., Liu E., **Kuchhal, D.** and Mazurek, M.L., First Steps Toward Measuring the Readability of Security Advice. The 2018 IEEE Security & Privacy Workshop on Technology and Consumer Protection (ConPro), 2018.
- Gupta, S., **Kuchhal D.**, Gupta, P., Ahamad, M., Gupta, M. and Kumaraguru, P., Cross-Platform Intelligence On Spam Campaigns Abusing Phone Numbers Across Online Social Networks [under review].

PROJECTS

- **Prediction of Admission & Jobs in Engineering & Technology/Management/Pharmacy**
AICTE, Ministry of Human Resource Development (MHRD), Government of India.
 - **Status:** Ongoing.
 - **Advisors:** Prof. Chandrashekar Ramanathan (International Institute of Information Technology, Bangalore), Dr. N.H. Siddalingaswamy (Director, AICTE), Dr. Sambuddha Roy (Deep Learning Practitioner; PhD, Rutgers).
 - **Objective:** To study AICTE's dataset and develop dynamic analytics for dashboards and data modelling.
 - **Budget:** \$4600 along with 6 months stipend to each member.

PROGRAMMING SKILLS

- **Languages:** Python, PHP, C/C++, Java, Ruby, HTML/CSS.
- **Technologies:** Flask, Rails, MongoDB, SQL, PostgreSQL, PlotLy, RESTful APIs.