





# KOYENA PAL

Computer Science Graduate Student & Researcher at Brown University

## CONTACT

-  (401) 226-7477
-  koyena\_pal@brown.edu
-  Providence, RI, USA - 02912
-  linkedin.com/in/koyena-pal/

## EDUCATION

### Master of Science, Computer Science

Brown University  
Providence, RI, USA | May 2022 |  
GPA - 4.00/4.00

### Bachelor of Science (Honors), Computer Science

Brown University  
Providence, RI, USA | May 2021 |  
GPA - 3.87/4.00

***Thesis: The Effect of Multi-Document Summarizations on User SERP Experience***

## RELEVANT COURSES

- Machine Learning
- Deep Learning
- User Interface and User Experience
- CS for Social Good
- Design and Analysis of Algorithms
- Software Security and Exploitation
- Computer Systems Security

## SKILLS

- Programming Languages:***  
Python, Ruby, SQL, Java, C, Scala, Go, XCode, DrRacket, OCaml, Latex, React, MATLAB, Javascript, HTML
- Software and Operating Systems:***  
GitHub, BitBucket, REST API, JIRA, MS Office Suite, Google Apps, OS X, Linux
- Industry Knowledge:***  
Programming, AI, Data Collection and Analysis, Software and Web Development, Project Management
- Interpersonal Skills:***  
Teamwork, Mentoring, Communication, Leadership
- Languages:***  
English, French, Hindi, Bengali

## WORK EXPERIENCE

### INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA, USA | MAY 2020 - AUGUST 2020

- Designed mechanisms to achieve language consistency in Technical Risk Illuminator, a tool built to support executive decisions.
- Conceptualized and modeled a multiple-tag generator to identify key terms and types of incidents from incident reports.

### INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA, USA | MAY 2019 - AUGUST 2019

- Optimized the yearly audits process duration by building a systems register, which generates answers that business units require to show that they are PCI Compliant.
- Revamped the PCI Gap Analysis Template to streamline the process of products entering the PCI Compliance program for the first time.

### INFORMATION SECURITY ANALYST INTERN

BROWN UNIVERSITY | PROVIDENCE, RI, USA | MAY 2018 - JULY 2018

- Substantially improved copyright ticketing process automation through network expansion in support of internal IP address, MAC address, and public IP username identification.

## PUBLICATIONS

“Effectiveness of Association Rules Mining for Invariants Generation in Cyber-Physical Systems” - available in the IEEE Xplore Digital Library (<https://ieeexplore.ieee.org/document/7911883>)

## RESEARCH & TEACHING EXPERIENCE

### STUDENT RESEARCHER

BROWN UNIVERSITY | PROVIDENCE, RI, USA | SEPT 2019 - PRESENT

- Brown AI Lab for Biomedical Informatics; Advised by: Dr. Carsten Eickhoff  
Developed a patient-centric literature summarization mechanism by implementing NLP models on biomedical texts.

### TEACHING ASSISTANT

BROWN UNIVERSITY | PROVIDENCE, RI, USA | AUGUST 2018 - DECEMBER 2020

- Head TA Deep Learning (Fall 2020):
  - Collaborating with a team of 4 HTAs and Prof. Daniel Ritchie to develop, organize, and improve this course, which has 375 students and 35 UTAs.
- TAed Theory of Computation (Fall 2019), Intro to Discrete Structures and Probability (Spring 2019), Computer Science - An Integrated Introduction (Fall 2018).

### RELATED EXPERIENCE

INSTRUCTOR @ Inspirit AI | MENTOR @ WiCS Brown | RESEARCH INTERN @ iTrust Cyber Security Centre