

KOYENA PAL

Computer Science Student & Head Teaching Assistant at Brown University

CONTACT



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EDUCATION

Bachelor of Science (Honors), Computer Science

Brown University

Providence, RI | 2021 | GPA - 3.87/4.00

RELEVANT COURSES

- Machine Learning
- Deep Learning
- Statistical Inference
- Software Security and Exploitation
- Topics in Software Security (Grad Seminar)
- Design and Analysis of Algorithms
- User Interface and User Experience
- Innovation in Practice
- Computer Systems Security (Capstone - Spring 2021)

SKILLS

- Python, Ruby, SQL, Java, C, Scala, Go, XCode, DrRacket, OCaml, LaTeX, React, MATLAB, Javascript, HTML
- GitHub, REST API, MS Office Suite, Google Apps, OS X, Linux
- Data Collection and Analysis, Software Testing and Debugging, Teamwork, Mentoring
- English, French, Hindi, Bengali

EXPERIENCE HIGHLIGHTS

INFORMATION SECURITY INTERN

AKAMAI TECHNOLOGIES | CAMBRIDGE, MA | 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 | 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 PCI Compliance program for the first time.

INFORMATION SECURITY ANALYST INTERN

BROWN UNIVERSITY | PROVIDENCE, RI | 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 HIGHLIGHTS

UNDERGRADUATE STUDENT RESEARCHER

BROWN UNIVERSITY | PROVIDENCE, RI | SEPT 2019 - PRESENT

- Worked in the Brown AI lab to pioneer a patient-centric literature summarization by implementing NLP models on biomedical texts.

UNDERGRADUATE TEACHING ASSISTANT

BROWN UNIVERSITY | PROVIDENCE, RI | AUGUST 2018 - PRESENT

- 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).

OTHER HIGHLIGHTS

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