

KOYENA PAL

Brown University ◇ Providence, RI 02912

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EDUCATION

Brown University 2021 – 2022

Master of Science, Computer Science

- GPA: 4.0/4.0

- Advisor: Dr. Carsten Eickhoff

Brown University 2017 – 2021

Bachelor of Science, Computer Science, Honors

- GPA: 3.8/4.0

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

- Thesis Advisor: Dr. Carsten Eickhoff

- Concentration Advisor: Dr. Ugur Cetintemel

INDUSTRY EXPERIENCE

Akamai Technologies May 2020 - August 2020
Information Security Intern Cambridge, MA

- Designed and deployed UI features to achieve consistent language interpretation in Technical Risk Illuminator, a tool built to support executive decisions.
- Conceptualized and modeled an NLP-based multiple-tag generator to identify key terms and types of incidents from cyber-incident reports.

Akamai Technologies May 2019 - August 2019
Information Security Intern Cambridge, MA

- 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.

Brown University May 2018 - July 2018
Information Security Analyst Intern Providence, RI

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

RESEARCH EXPERIENCE

Brown AI Lab for Biomedical Informatics Sept 2019 - Present
Student Researcher Providence, RI

- AI + Healthcare: Developed a patient-centric literature summarization mechanism by implementing NLP models on biomedical texts.
- AI + HCI: Conducted user-study on the effect of multi-document summarizations on User Search Results Page (SERP) experience.

iTrust Centre at Singapore University of Technology and Design April 2016 - Jan 2017
Research Intern Singapore

- AI + Cyber Security: Proposed a novel method to detect cyber-attacks on a Cyber-Physical System.

HONORS AND AWARDS

Brown CS Scholarship for Richard Tapia Conference	2021
Brown University Undergraduate Honors Award	2021
Brown Undergraduate Teaching Assistant-ship	2019
Top 3 Best Student Paper Award @ IEEE 18th HASE Conference	2017

PUBLICATIONS

1. K. Pal, S. Adepu and J. Goh, "Effectiveness of Association Rules Mining for Invariants Generation in Cyber-Physical Systems," *2017 IEEE 18th International Symposium on High Assurance Systems Engineering (HASE)*, 2017, pp. 124-127, doi: 10.1109/HASE.2017.21.

TEACHING AND RESEARCH MENTORSHIP

Brown University	Dec 2018 - Dec 2020
<i>Teaching Assistant (TA) and Head TA*</i>	<i>Providence, RI</i>

- CSCI 1470* and 2470*: Deep Learning, with Dr. Daniel Ritchie (Fall 2020)
- CSCI 1010: Theory of Computation, with Dr. Lorenzo De Stefani (Fall 2019)
- CSCI 0220: Introduction to Discrete Structures and Probability, with Dr. Caroline J Klivans (Spring 2019)
- CSCI 0170: Computer Science – An Integrated Introduction, with Dr. Philip N. Klein (Fall 2018)

Inspirit AI	July 2020 - August 2020, Dec 2021
<i>Instructor</i>	<i>Online</i>

- Conducted online lectures and coding assignments covering concepts such as machine learning fundamentals, NLP, computer vision, and ethics in AI.
- Guided global group of students through AI projects such as Anti-Refugee Semantic Analysis.

SKILLS

Programming Languages:	Python, Ruby, SQL, Java, C, C++, Scala, Go, DrRacket, OCaml, Latex, React, MATLAB, Javascript, HTML, CSS
Software, OS & Tools:	GitHub, BitBucket, Heroku, MongoDB, MySQL, REST API, JIRA, Pandas, Numpy, Gensim, scikit-learn, Google Apps, MS Office Suite, Google Apps, Qt Creator, OS X, Linux
Languages:	English, French, Hindi, Bengali

RELEVANT COURSES

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

SERVICE

Mentor @ Brown University's Women in Computer Science	2018-Present
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ACTIVITIES AND SOCIETIES

Brown's DAEBAK K-Pop Dance Association, Bengali Students' club, Hack@Brown, Peer mentoring, Playing Tennis, Playing Piano, Traveling