

Bipasha Banerjee

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Blacksburg, VA 24060 USA

RESEARCH INTEREST

Natural language processing, Information Retrieval

EDUCATION

Virginia Polytechnic Institute and State University

Blacksburg, Virginia, 24061 USA

Ph.D., Computer Science

Qualification process completed

August 2018 – Present

GPA: 3.81/4.0

Institute: Institute of Engineering & Management (IEM)

University: West Bengal University of Technology

Kolkata, West Bengal India

Bachelor of Technology, Computer Science and Engineering

August 2011 - July 2015

GPA: 8.63/10

TECHNICAL SKILLS

Programming and Scripting Languages: C, C++, C#, Java, Python, Shell scripting, HTML, JavaScript, CSS

Databases: Basics of 11g and 12c Oracle, MySQL

Others: Salesforce, Android Studio, Selenium, Cucumber

OS basic knowledge: Linux and Windows

RELEVANT COURSEWORK

Human AI Interaction, Research Methods in CS, Digital Libraries, Software Engineering, (Big) Data-Management Systems, Operating Systems, Big Data Text Summarization, Probabilistic and Discrete Mathematics, Computer Organization and Architecture, Design and Analysis of Algorithms, Data Structures, Computer Networks, Database Management Systems, Internet Technology, Cloud Computing, E-Commerce

EMPLOYMENT HISTORY

Virginia Polytechnic Institute and State University

August 2019 - Present

Graduate Research Assistantship

- GRA for the IMLS grant awarded jointly to Virginia Tech and Old Dominion University
- Focus on book-length document segmentation and chapter-level summarization

ADP

Summer Internship

May 2019 - August 2019

- Worked on the time and labor module.
- Mainly involved in automation of the application.

Virginia Polytechnic Institute and State University

January 2019 – May 2019

Graduate Teaching Assistant

- TA for the course CS3754 - Cloud Software Development.

Developer

- Worked on the development and enhancement of an Android application using Java based Android studio IDE as the frontend with Salesforce as its backend.
- Worked as a developer on Microsoft .Net platform and developed both web and windows applications using Basic as well as MVC architecture.

ACADEMIC PROJECTS / INTERNSHIPS**Virginia Polytechnic Institute and State University**

Nov 2018 – Present

Research supervised by Dr. Edward A. Fox

- Parsing of the references of long documents like ETDs by applying deep learning techniques.
- Chapter segmentation and chapter-level summarization for ETDs.

Virginia Polytechnic Institute and State University

Jan 2020 - May 2020

Course Project for Human-AI CS 6724

- Studying the effects of using expert labels in the training of a machine learning model

Virginia Polytechnic Institute and State University

Aug 2018 - Dec 2018

Course Project for CS5984

- Generating summaries of two shooting events from a large collection of webpages.
- Project URI: <http://hdl.handle.net/10919/86407>

Central Computer Science and Engineering Lab, IEM, Kolkata.

Jan 2013 – June 2015

Under Graduate Researcher

- Designed a Recommendation Based On-Demand Protocol for MANET.
- Proposed Self-Organized key management based on fidelity relationship list and dynamic path for security in MANET.
- Published a review of different routing protocols and their vulnerabilities and countermeasures.
- Published a review on attacks and secure routing protocols in MANET.

Indian Statistical Institute, Kolkata

May 2014 – July 2014

Cryptology Summer Internship

- Studied the various approaches to cryptology.
- Analyzed “intractable problems” with respect to cryptology.
- Had hands-on training on the practical aspects of cryptology.

Saha Institute of Nuclear Physics, Kolkata

January 2014 – March 2014

Internship

The purpose of the project was to learn about Web development tools, Linux operating system, the Basic commands as well as shell scripting, and then to move on to learn how a client-side web browser communicates with a remote MySQL server using Common Gateway Interface (CGI) over an Apache web server.

- Learnt about how to reduce the server-side load by using JavaScript on the client side, in jQuery.
- Learnt about Asynchronous JavaScript and XML (AJAX) for client-server communication.

PRESENTATION**Title:** “Different Routing Protocols And Their Vulnerabilities And Their Measures”.

March 8-9, 2014

Conference: “The International Conference on Advances in Computer Science and Electronics Engineering-CSEE”, held in Kuala Lumpur, Malaysia.**AWARDS & ACHIEVEMENTS**

- “Student of the Year” award by Institute of Engineering and Management for academics as well as contribution to the college for 2014

- Selected by Indian Statistical Institute, Kolkata, as one of the 60 candidates from all over the country as a Summer Cryptology Intern, May 2014.

WORKSHOPS/ TRAININGS/ CERTIFICATIONS

- Online course Data Science: R Basics offered by Harvard University through edX
- Online course titled “Introduction to Python for Data Science”, offered by Microsoft (DAT208x) completed with a final grade of 96% - June 2017
- Microsoft Certification (Microsoft Specialist): Programming in C#, March 2017
- Completed an online course Programming for Everybody (Python) offered by University of Michigan, with distinction. – May 2015
- Microsoft Certification (Microsoft Technological Associate) on Database Fundamentals, June 2014.
- Training on MySQL: Institute of Engineering & Management, Kolkata, April-May 2014
- Training on Microsoft .Net: Webel Informatics Limited, Kolkata, Summer 2013

EXTRA-CURRICULAR

- Member of IEM Computer Society and E-cell. 2012-2015
- Social Service rendered for the destitute and dying at Missionaries of Charity, Kalighat, Kolkata, June-July 2014
- Active participant in elocution competition- Participated in Golpark Ramakrishna Mission Elocution Competition, Kolkata
- ACM professional member.
- IEEE student member.

CONTACT

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