

# **Bipasha Banerjee**

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Blacksburg, VA

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## **EDUCATION**

### **Virginia Polytechnic Institute and State University**

Blacksburg, Virginia, USA

PhD, Computer Science

August 2018 - Present

GPA: 3.67

### **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**

Software Engineering, (Big) Data-Management Systems, Operating System, 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**

### **ADP**

*Summer Internship*

May 2019 - August 2019

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

### **Virginia Polytechnic Institute and State University**

January 2019 – May 2019

*Graduate Teaching Assistant*

- TA for the course CS3754 - Cloud Software Development.

### **TATA Consultancy Services, Kolkata**

April 2016 - November 2017

*Developer*

- Worked in 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 application using basic as well as MVC architecture.

## **ACADEMIC PROJECTS / INTERNSHIPS**

### **Virginia Polytechnic Institute and State University**

Nov 2018 – Present

*Research*

- Started working on parsing of the references of ETD under Dr. Edward Fox.
- Applying deep learning techniques for creating an effective parser.

**Virginia Polytechnic Institute and State University**

Aug 2018 - Dec 2018

*Course Project*

- The goal of this work was to generate summaries of two shooting events from a large collection of webpages.
- The URI of the project is <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 a 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*

- Understood 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<sup>th</sup> -9<sup>th</sup> 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.