Anika Anzum Prima

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EDUCATION

- **Montana State University**   Bozeman, MT
  Master's in Computer Science; *CGPA: 3.77/4.00*   *Fall 2017 – Fall 2019*
  Research Topic:

  ○ *Analysis of US census data and network measurement data to figure out whether everybody is accessing same quality of Internet at same price. Evaluating the fairness and variation of network performance metrics among all the counties of US using different data analysis techniques.*

  ○ *Google Speech Recognition for figuring out which Google servers are converting voice into text and developing an architecture for a distributed voice recognition server to speed up the conversion and to ensure faster performance.*

  Completed Coursework:
  Advanced Computational Biology, Research and Methodology in Engineering, Data Mining, Distributed System, Algorithm, Advanced Algorithm Topics, Networks, Computability, Advanced Networks

- **University of Dhaka**   Dhaka, Bangladesh
  Bachelor of Computer Science and Engineering; *CGPA: 3.68/4.00*   *January 2012 – June. 2016*
  Thesis Topic: Internet Data Budget Allocation Policies for Diverse Smartphone Applications

EXPERIENCE

- **Montana State University Library**   Bozeman, MT
  Digital Technologies Developer (Non Tenure-Track Faculty)   *May 2019 - Present*

  Responsibilities: Working as an active member of a service-oriented team that advances digital library initiatives via software development and data analysis. Assisting with development and maintenance of a diverse portfolio of digital products and services that provide users with enhanced digital library access. Providing technical guidance for integrating Montana State University Library's digital collections into classroom environments, research initiatives, and the community.

- **Montana State University**   Bozeman, MT
  Teaching Assistant   *Aug 2017 - May 2019*

  Courses: Basic Data Structure and Algorithms, Programming with C, Social and Ethical Issues

  Responsibilities: Supervising programming labs, teaching problem-solving techniques in lab, grading programming lab works, grading assignments, grading recitation, tutoring students in office hours

- **Daffodil International University**   Dhaka, Bangladesh
  Lecturer   *September 2016 - December 2016*

  Courses: Bio-Informatics, Software Engineering

  Responsibilities: Giving lectures; grading assignments, answer scripts, projects; tutoring and counseling students in office hours

- **Green Networking Research Group, University of Dhaka**   Dhaka, Bangladesh
  Research Assistant   *May 2014 - August 2016*

  Project: Internet Data Budget Allocation Policies for Diverse Smartphone Applications

PUBLICATIONS

- **Internet Data Budget Allocation Policies for Diverse Smartphone Applications**

  Saidur Rahman, **Anika Anzum Prima***, Md. Abdur Razzaque, Mohammad Mehedi Hassan, Abdul hameed Alelaiwi, Majed Alrubaian, Kim-Kwang Raymond Choo; Published in EURASIP Journal on Wireless Communications and Networking, September, 2016, DOI: 10.1186/s13638-016-0727-9,* Impact Factor: 2.407

- **Optimal allocation of 3G budget for smartphones running heterogeneous applications**

  Saidur Rahman, **Anika Anzum Prima***, Md. Abdur Razzaque; Published in 2016 International Conference on Networking Systems and Security (NSysS), Dhaka, January-2016, pp. 1-6. doi: 10.1109/NSysS.2016.7400698*

Projects

- **Intermountain Opera Bozeman (IOB)** May 2019 - Present

  Working on the development and maintenance of a digital collection of Opera programs, audio/video materials and performance details dating from 1979 to present. The digital files of the Opera programs are loaded into Library's digital preservation architecture and rendered searchable in a Web-accessible database. IOB project helps to preserve Montana and Bozeman history, people can access publicly available materials to search the history of Opera.

- **Banned Books Montana Collection** May 2019 - Present

  Working on the maintenance of Banned Books Montana digital collection which preserves all the books have been challenged or banned through the ages for a variety of reasons including sexual content, religious content and political content. Publicly available materials will give people freedom to access information about banned books.

- **Innovation for Autistic Children(HCI project)** August 2015 - December 2015

  For Human-Computer Interaction project, developed some puzzle games with attractive graphics and animations to teach autistic children about the alphabet and different fruits. Interactive features, cheerful sounds have been used to motivate the children while playing the game. Existing applications use flashy graphical interface and loud background music which distract the children instead of making them concentrate on learning. The game has been developed with simple features to ease the learning process of the autistic children.

- **Online Result Processing System** January 2014 - April 2014

  Developed a system to process university semester result. The system handles course registration request, instructors can publish grades, students can check their result of any semester. Used several software design pattern (such as MVC, Singleton, Decorator, Strategy), MySQL, JSP, Servlet for the implementation.

Technical Skill

- **Languages**
  Python, Java, C, SQL, R, HTML, CSS, PHP, Javascript

- **Technologies**
  AWS (S3, SQS, EC2), Latex, Linux, Eclipse, Netbeans, Codeblocks, RStudio, PostgreSQL, MySQL, XML