Mohammad Ashraf Siddiquee

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Education

MS/PhD in Computer Science (Expected graduation - 2019/2021)   *August 2016 - Present*
University of New Mexico, Albuquerque, NM

B.S. in Computer Science and Engineering   *October 2013*
University of Dhaka, Bangladesh

Career History

Research Assistant, *Department of Computer Science, University of New Mexico*   *May 2017 - Present*
- Working on a scalable and efficient semi-supervised earthquake detection algorithm using time-series analysis in collaboration with **Los Alamos National Laboratory**. Currently evaluating the performance improvements due to parallelization of existing similarity search algorithms (i.e. *Matrix Profile*) using **Apache Spark** and **Apache Flink**. Project inspector: *Dr. Abdullah Mueen.*

Software Engineer, *Tiger IT Bangladesh Limited, Dhaka, Bangladesh*   *October 2013 - July 2016*
- Project: **Continuous Voter Registration (CVR) System**, developed for *Election Commission, Nepal*; funded by *UNDP*.
  - Developed modules in CVR using **Spring MVC** and **PostgreSQL** database.
  - Developed synchronization module between regional and central server using **stateless web-service**.
  - Improved performance by **PostgreSQL** tuning and benchmarking.
  - Integrated **AFIS** (Automated Fingerprint Identification System) and **ElasticSearch** server in the client module.
- Project: **Machine Readable Passport (MRP)**, developed for *Ministry of Foreign Affairs, Nepal.*
  - Developed stateless web service using **EJB** and **Oracle database** for client portal.

Software Engineer, *Structured Data Systems Limited, Dhaka, Bangladesh*   *May 2013 - September 2013*
- Developed and tested GPS navigation modules in **AfriGIS Navigator iOS client** using **Cocoa touch** framework.
- Developed both UI and back-end of *Artists*, *Albums* and *Songs* modules in **Sleeve Music iOS client** using **Cocoa touch** framework and **SQLite** database.

Teaching Assistant, *Department of Computer Science, University of New Mexico*   *August 2016 - May 2017*
- Courses: **Discrete Mathematics** (Fall 2016), **Data Structures & Algorithms** (Fall 2016), **Data Structures & Algorithms 2** (Spring 2017)
- Responsibilities: Grading HW and exam scripts, assisting students on class topics, holding office hours etc.

Skills

Programming: Java, C/C++, HTML/CSS, JavaScript, SQL, Objective C, MatLab, LaTeX, Scala, Shell scripting, Python, Haskell

Tools and Softwares: Apache Spark, Apache Flink, Apache Tomcat Server, Oracle WebLogic Server, Maven, Hibernate, Spring, Cocoa Touch, ElasticSearch server, Oracle database, MySQL, PostgreSQL, SVN, Git

SDLC: Agile, Continuous Integration, Scrum, Version control, Requirements analysis

Awards and Leadership

BASIS SoftExpo: (**1st Runner-up** in software design)	*2009*
IUT National Programming Contest: (**2nd runner-up** among 70 teams)	*2009*
ACM ICPC - Asia-Dhaka site event: (**25th** among 105 teams)	*2010*
Awarded **Talentpool Scholarship** during Bachelors by **Government of Bangladesh**	*2009 - 2012*
Treaserer of Computer Science Graduate Student Association, UNM	*2018-19*
Vice-president of Bangladeshi Student Association at UNM	*2018-19*