

Curriculum Vitae

Mohammed Emtiaz Ahmed

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Education:

PhD in Computer Science (2015-2020)

University of Houston, Houston, Texas, USA

Advisor: Dr. Ioannis Pavlidis (http://cpl.uh.edu/people/ioannis_pavlidis/)

Bachelor of Science in Computer Science & Engineering (2008-2012)

Khulna University of Engineering & Technology (KUET), Bangladesh

Journals:

[1] A. Petersen, D. Majeti, **M.E. Ahmed**, K. Kwon, and I. Pavlidis. Cross-Disciplinary Evolution of the Genomics Revolution. *Science Advances* 2018 - pending revisions.

Experience:

Research Assistant (August 2017 - Present)

Computational Physiology Lab (<http://cpl.uh.edu/index.php>)

Department of Computer Science, University of Houston, Houston, Texas

- Study the impact of collaboration in cross-disciplinary sciences like Genomics and Brain Science
- Study the impact of Gender in cross-disciplinary research field.
- Working on the implementation of Advance Portal project.
- Working on User Study Survey of Scholarplot.
- Working on data collection for innovative design implementation of Scholarplot(<http://scholarplot.com/>)
- Implemented Profile RNS(<http://profiles.catalyst.harvard.edu/>) tool for University of Houston (<http://scholarprofile.org>)

- Developed Python tools for collecting data from Scopus.
- Developed Python tool for collecting gender data using gender.io

Teaching Assistant (Sept 2015 – Aug 2017)

Department of Computer Science, University of Houston, Houston, Texas

- Instructed and graded COSC 3320 (Algorithms and Data Structure), Spring 2017
- Instructed and graded COSC 3320 (Algorithms and Data Structure), Fall 2016
- Instructed and graded COSC 3320 (Algorithms and Data Structure), Summer 2016
- Instructed and graded COSC 3320 (Algorithms and Data Structure), Spring 2016
- Instructed and graded COSC 1410 (Introduction to Computer Science), Fall 2015

Software Engineer (July 2012 – May 2015)

Samsung R&D Institute Bangladesh (SRBD) – Dhaka, Bangladesh

Mobile Division (Android Platform)

- Analyzed issues and fixed in 100+ models of Samsung smartphones and tabs.
- Collaborate closely with Korean engineers to plan, design and developed robust solutions.
- Support project management team for smoothly delivered projects.
- Communicate effectively with testing teams to ensure software solutions elevated user side experience.
- Modified existing software to correct errors, upgrade interfaces and improve performance.
- Implemented new concepts in Launcher.
- Worked on several flagship smartphone models like: Galaxy S3,S4,S5, Note 3, Note 4 etc.
- Worked on Modules: TwLauncher, Magazine Launcher, TouchWiz Home, My Magazine, Emergency Launcher, Wallpaper Chooser, Live Picker, Dynamic Lock Screen, Theme Chooser

Contributions in Samsung Headquarters:

- Samsung Electronics, HQ, South Korea, (**March 2014 – July 2014**)
 1. Analyzed and fixed more than 200 critical base problems of Samsung flagship smartphones and tabs
 2. Implemented the **Dynamic lock screen, Wallpaper picker, and Emergency Launcher**

- Samsung Electronics, HQ, South Korea, (**March 2013 – May 2013**)
 1. Analyzed and fixed more than 100 critical base problems of Samsung smartphones and tabs

Research Interests:

Data Science, Data Visualization, Human-Computer Interaction

Technical Skills:

Programming Languages:	C, C++, Python, R, Java, C#
Mobile Programming:	Swift for iOS, Android
Web Programming:	PHP, JavaScript, HTML, CSS, ASP
Parallel Programming:	MPI, OpenMP
Databases:	MySQL, PostgreSQL, Oracle 10g, MS SQL
Tools:	XCode, Eclipse, R Studio, SVN, IntelliJ, Git, Visual Studio, LaTeX, WebStorm
Visualization Tools:	D3.js, Gephi, Tableau

Other Publications:

[1] **M.E. Ahmed**, A.B. Yusuf, and Md. Z. Polin. Bar 1-visibility representation of optimal 1-planar graph. *EICT* 2013. (IEEE xplore DOI : 10.1109/EICT.2014.6777827).

Coursework:

Graduate Courses:

- Statistical Methods in Research
- Machine Learning
- Adv. Numerical Analysis
- Database Systems
- Ubiquitous Computing
- Programming Paradigm
- Algorithm and Data Structures
- Parallel Computing
- Operating Systems
- Distributed Algorithms
- Graduate Colloquium

Online Courses:

Coursera Courses:

- Programming for Everybody(Python), University of Michigan

Datacamp courses:

- Intro to Python for Data Science
- Data Science R Basics

edX courses:

- Introduction to Python for Data Science
- Introduction to HTML and JavaScript
- Introduction to R for Data Science
- Data Science: R Basics

Awards:

- Graduate Tuition Fellowship, Fall 2015 - Current
- Consistent Academic Excellence Award, 2008-2011