

Asadullah Hill Galib

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Personal Statement

I'm pursuing my PhD in Computer Science at Michigan State University from Fall 2020. Currently, I'm looking for graduate research assistantship (GRA) opportunities.

Education

Master of Science in [Software Engineering](#) 2020

[University of Dhaka](#), Dhaka, Bangladesh

Thesis: Significant Features Analysis For Android Malware Detection Using Machine Learning Techniques

Bachelor of Science in [Software Engineering](#) 2018

[University of Dhaka](#), Dhaka, Bangladesh

Standardized Test

GRE: 320/340 (Quantitative - 165/170, Verbal - 155/170, Analytical Writing - 3.0/6.0)

TOEFL: 102/120 (Reading - 29/30, Listening - 23/30, Speaking - 24/30, Writing - 26/30)

Technical Skills

Programming: Python, Java, PHP, JavaScript, C, C++, R, Octave, Assembly

Libraries: Scikit-learn, Pandas, React, Redux-Saga, jQuery

Database Management Systems: MySQL, Oracle, Firestore

Frameworks: React Native, Laravel, Selenium, MVC

Technologies and Methodologies: Linux, Git, Agile, Foritfy, SRS, XAMPP, Postman, Jira, Trello, Desktme

Publications

1. **Galib, A. H.**, Hossain, B. M. (2020, July). Significant API Calls in Android Malware Detection (Using Feature Selection Techniques and Correla-tion Based Feature Elimination). In Proceedings of the 32nd InternationalCon-ference on Software Engineering Knowledge Engineering (pp. 566-571).
2. **Galib, A. H.**, Hossain, B. M. (2020). A Review on Hybrid Analysis using Machine Learning for Android Malware Detection. Dhaka University Journal of Applied Science Engineering (DUJASE), Volume 5(1 & 2). Manuscript in press.
3. **Galib, A. H.**, Hossain, B. M. (2019, December). A Systematic Review on Hybrid Analysis using Machine Learning for Android Malware Detection. International Conference on Innovation in Engineering and Technology (ICIET) 2019.
4. Yasir, R. M., Asad, M., **Galib, A. H.**, Ganguly, K. K., Siddik, M. S. (2019, May). GodExpo: an automated god structure detection tool for Golang. In 2019 IEEE/ACM 3rd International Workshop on Refactoring (IWorR) (pp. 47-50). IEEE.

Research Projects

1. **Pre-birth Factors in the Early Assessment of Child Mortality using Machine Learning Techniques:** Incorporating pre-birth factors, such as birth history, maternal history, reproduction history, socio-economic condition, etc. for the early classification of child mortality.
2. **Predicting GitHub Issues Lifetime using Machine Learning and Topic Modeling (LDA):** Analyzing the characteristics and applicability of topic modeling (LDA) in GitHub Issues and predicting lifetime based on topic modeling (LDA) with machine learning techniques.

3. **Optimizing Search Space in Code Smells Detection using a Novel Metric:** Significantly reducing search space using a novel metric called - NCPC, while maintaining the performance of code smells detection.
4. **ProtectMe: An Approach to Provide Audio Privacy in Real-time:** Audio communication with audio privacy in real-time using a modification algorithm.

Academic & Professional Projects

1. **Analyzing co-authorship network: Centrality Measure, Link Prediction, and Community Detection:** An analysis of a network of co-authorship relations between researchers. It includes network creation from XML data, data exploration, centrality measure, missing link prediction, and community detection.
2. **Heart Disease Prediction and Factors Analysis:** Heart disease prediction with consideration of performance measures and significant factors/attributes analysis
3. **LifeBlood:** A GPS based blood donor finder android app which sorts out nearer blood donors across the map. In addition, a user rating system and profiling of donors are being implemented.
4. **AutoPilot-Web:** A web-based digital transformation of BTS (Base transceiver station) management. Its purpose is to optimize and automate the existing network management system.
5. **AutoPilot-Mobile:** A mobile application (iOS and Android) for the digital transformation of BTS (Base transceiver station) management.
6. **LogBook:** A web-based application for personal task management including task manager, notes, attachments, reminders and synchronization.
7. **Offline-Search-Engine:** An Offline (file-folder) search engine for Linux and Windows operating systems.

Industry Experience

Software Developer & Executive Assistant, *Brain Station 23*

January 2018 - June 2018

- Developed and maintained web application and mobile application, using Laravel Framework, PHP, MySQL, React-Native, Redux-Saga, Android Studio, Postman and proper version-controlling (Git, SourceTree).
- Carried out comparative analysis (performance, ease of development, feature analysis) of two e-commerce frameworks: nopCommerce and Magento.
- Reviewed an existing system for updates and enhancement.

Teaching Experiences

Graduate Teaching Assistant, *Michigan State University (CSE)*

August 2020 - Present

- Coordinator (Section 1) and help room teaching assistant of *CSE 102: Algorithmic Thinking and Programming*

Short-course Instructor, *Institute of Information Technology, University of Dhaka*

August 2019 - March 2020

- Teaching smart office programs, designing exam questions, assessing oral presentations.

Leadership Activities

Organizer, First Software Industry-Academia Collaboration Session in 2017 (with 10 leading companies)

Vice President & Treasurer, IIT Software Engineers' Community, University of Dhaka

Editor & Author, Shoshikkha - A web-based knowledge platform

Organizer, Seminar on the fourth industrial revolution, Workshops on secured internet protocol and IT awareness for females, Boot Camp on technology for peace

Founding Member, Innovation, Creativity & Entrepreneurship -ICE Center, University of Dhaka

Co-founder, ASMSIF (Association for Spreading Mathematical and Scientific Intelligence with Fun)

Organizer, Local Math Olympiad

Scholarships and Honors

- **Board Merit Scholarship** and full tuition waiver in the undergraduate study at the University of Dhaka, Bangladesh for excellence in H.S.C Examination, 2014, Dhaka Board.

References

Available upon request