YASASI ABEYSINGHE

Ph.D. Student, Old Dominion University

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EXPERIENCE

Old Dominion University
📍 Norfolk, USA

Graduate Research Assistant 📅 Jan 2022 – Present

- Research on identifying objective measures using eye movements to effectively assess the engagement of fake news.
- Research on automatically extracting features from papers for predicting reproducibility of scientific papers.
- Volunteered as a mentor assistant for the ODU Research Experiences for Undergraduates (REU) in Disinformation Detection and Analytics Summer '22 program.

Sysco LABS
📍 Colombo, Sri Lanka

Senior Software Engineer 📅 Sep 2020 – Dec 2021

- Developed the Event Platform 2.0 which provides the data streaming and processing capabilities to Sysco teams.

Software Engineer 📅 Jan 2019 – Sep 2020

- Developed new features for the Event Platform 1.0.
- Developed new features for the API Central which provides API management capabilities to Sysco.

LSEG Technology
📍 Malabe, Sri Lanka

Engineering Intern 📅 June 2017 – Dec 2017

- Built a tool which is currently used by LSEG Technology to measure the compliance of each project team to Code Review Guidelines.

PROJECTS

Assess Fake News Engagement via Eye movements
📅 Jan 2022 – Ongoing   📍 Old Dominion University

Python | Machine Learning
Research on analyzing eye movement data to identify reading patterns of participants and to identify objective measures using eye movements to effectively assess the engagement of fake news.

Automatic Feature Extraction from Scientific Papers
📅 Jan 2022 – Aug 2022   📍 Old Dominion University

Python | Regular Expression | Gender API
Research and development of automatic feature extraction from scientific papers including table references, figure references, gender diversity of authors, and novelty score for predicting reproducibility of scientific papers.

Event Platform
📅 Jan 2019 – Dec 2022   📍 Sysco LABS

Java | Maven | Kafka | AWS Kinesis | Avro | Python | NodeJS
Event Platform 2.0 provides the capability to ingest and consume serialized or binary data into/from Apache Kafka topics. Event Platform 1.0 is based on AWS Kinesis Streams.

API Central
📅 Jan 2019 – Dec 2022   📍 Sysco LABS

Google Apigee | GO language | Java | Kotlin | AWS
API Central provides API Management capabilities to Sysco with the use of Google Apigee API Manager.

Context Aware Hierarchical Aspect Aggregation
📅 Jan 2018 – Dec 2018   📍 University of Moratuwa

Python | Machine Learning | NLP | Data Mining
Research on generation of review aspect term hierarchy using word embedding and clustering.

EDUCATION

Ph.D. in Computer Science
Old Dominion University, USA
📅 Jan 2022 – May 2026 (Expected)   🏆 GPA: 4.0/4.0

B.Sc. Engineering (Hons) in Computer Science & Engineering
University of Moratuwa, Sri Lanka
📅 Oct 2014 – Dec 2018   🏆 GPA: 3.71/4.2
📑 Specialized in Integrated Computer Engineering (ICE)

Diploma in Computer System Design
National Institute of Business Management, Sri Lanka
📅 Oct 2013 – Oct 2014   🏆 Distinction

Diploma in English
Oxford College of Business, Sri Lanka
📅 Sep 2013 – Jan 2014   🏆 Distinction

ACHIEVEMENTS

🏆 **Graduated with First Class Honors - 2018 University of Moratuwa**

🏆 **CINTEC Award - Academic Year 2017/2018 University of Moratuwa**
Awarded to the student who has earned the highest marks for the Final Year Research

SKILLS

`Python` `Java` `C/C++` `JavaScript`
`HTML/CSS` `Golang` `MySQL` `MongoDB`
`DynamoDB` `RDS` `S3` `CloudWatch`
`EC2` `AWS Lambda` `CloudFormation`
`Kinesis` `Kafka` `Git` `Pandas` `NumPy`
`SciKit` `Machine Learning` `Eye-tracking`
`Natural Language Processing` `Data Mining`
`Information Retrieval`

PUBLICATIONS

👥 Conference Proceedings

- Bhanuka Mahanama, Gavindya Jayawardena, Yasasi Abeysinghe, Vikas Ashok, and Sampath Jayarathna (2022). "Multidisciplinary Reading Patterns of Digital Documents". In: *2022 Symposium on Eye Tracking Research and Applications*.
- Rashindrie Perera, Tamasha Malepathirana, Yasasi Abeysinghe, Yumna Albar, and Uthayasanker Thayasivam (2019). "Amalgamation of General and Domain Specific Word Embeddings for Improved Hierarchical Aspect Aggregation". In: *2019 IEEE 13th International Conference on Semantic Computing (ICSC)*.