Meeraa Shahibo Faathima Fayaza

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http://faathimafayaza.blogspot.com/ | http://swtestautomationframework.blogspot.com/

PERSONAL STATEMENT

A committed, knowledgeable and capable Research Fellow as well as an energetic, highly motivated, result oriented and technically competent dynamic team player. A confident presenter and teacher, able to impart complex information to audiences of all levels.

EDUCATION

MSc: MSc in Computer Science Specializing in Data Science Engineering and Analytics
University of Moratuwa
January/2017 – January/2020
Thesis Title: Tamil News Clustering Using Word Embeddings
Supervised By : Surangika Ranathunga, PhD

BSc: B.Sc. (Hons.) in Information Technology
University of Moratuwa
October/2011 – December/2015
Thesis Title: Resolution Independent 2D Cartoon Video Conversion

EMPLOYMENT HISTORY

Head | Department of Information Technology, South Eastern University of Sri Lanka
March/2022 – Present

Lecturer| Department of Information Technology, South Eastern University of Sri Lanka
September/2021 - Present

Lecturer| Department of Information & Communication Technology, South Eastern University of Sri Lanka
September/2020 - September/2021
- CIS21022 - Social and Professional Issues in ICT
- SWT31022 - Software Verification and Quality Assurance
- SWT12022 - Web Systems and Technologies
- SWT 12041 - Practical for Web Systems and Technologies
- CIS22012 - Distributed & Cloud Computing
- CIS 22042 - Practical for Distributed and Cloud Computing

Senior Software Engineer| Infor – Just In Time
July/2019 – September/2020
Hands-on experience in Test Automation and Test automation frameworks
- Perform tasks related to test planning, test creation, review, and execution using Krypton
- Work closely with developers and QA to understand the full scope of features, perform extensive testing to ensure coverage and quality
- Provide bug reports to troubleshoot potential problem areas
- Create, execute, improve and maintain automation test scripts through best practices, closely monitor test results for feedback
- Familiar with some Continuous Integration frameworks like Jenkins
- Technologies used: Java, Xtend, Maven, Selenium, Git, Jenkins

Software Engineer| Infor – Just In Time
July/2017 – July/2019
Hands on experience on Test Automation and Test automation frameworks

- Perform tasks related to test planning, test creation, review and execution using Krypton
- Work closely with developers and QA to understand full scope of features, perform extensive testing to ensure coverage and quality
- Provide bug reports to troubleshoot potential problem areas
- Create, execute, improve and maintain automation test scripts through best practices, closely monitor test results for feedback
- Familiar with some Continuous Integration framework like Jenkins
- Technologies used: Java, Xtend, Maven, Selenium, Git, Jenkins

Assistant lecturer in Information &Communication Technology | Department of Information &Communication Technology, South Eastern University of Sri Lanka

November/2016 – April/2017
Conducted lectures for practical for database and gave tutorials on mathematics for ICT and logic designing.
- I participated in syllabus drafting and course curriculum designing.
- I participated in orientation program and induction program

Software Engineer| GT Nexus – Just In Time

December/2015 – November/2016
Hands on experience on Test Automation and Test automation frameworks
- Developing interfaces for automation, design and automate the test cases
- Conduct peer reviews and User acceptance testing (UAT) sessions for test cases
- Create and improve test frameworks to satisfy automation and reporting
- Develop, execute, and debug automated functional tests
- Work closely with development, product management and functional QA teams
- Support testers to better utilize the frameworks/tools
- Maintain and improve our framework documentation and design guidelines
- Technologies used: Java, Xtend, Maven, Selenium, Git, Jenkins

Software Engineering Intern| WSO2

May/2014 – October/2014
Worked on two projects
- Workflow support for provisioning related tasks - WSO2 SS
- Email and SMS Notification Support for HumanTask Notification -WSO2 BPS
- Technologies used: BPEL, Java, Jaggery, Web Service, Axis2, SMSC, SMPP, Apache Ant,Maven, SVN, Git

PUBLICATIONS

- **M.S. Faathima Fayaza** and F. Fathima Farhath, "Towards Stopwords Identification in Tamil Text Clustering" International Journal of Advanced Computer Science and Applications(IJACSA), 12(12), 2021. http://dx.doi.org/10.14569/IJACSA.2021.0121267
- **M.S.Faathima Fayaza**, Fanoon Raheem and Nihla Iqbal, " Prediction of Forex Rate Using Deep Learning: US Dollar to Sri Lankan Rupees", Sri Lankan Journal of Technology, 02(02): 27- 31,2021
- **M.S.Faathima Fayaza,** " Brain Computer Interface: Systems and Interacting Devices", *in Proc.1st International Conference on Science and Technology (ICST 2021*), Sri Lanka, July 2021 **[Won best paper and presenter award]**
- **M.S.Faathima Fayaza,** "Service-Oriented Architecture in Enterprise Integration", *Journal of Information Systems & Information Technology (JISIT),* 05(02):89-98, 2020
- **M.S.Faathima Fayaza** and Surangika Ranathunga, "Tamil News Clustering Using Word Embeddings", *in Proc. 6th Moratuwa Engineering Research Conf. (MERCon 2020)*, Sri Lanka, July 2020 [**Nominated for best paper award**]
- **MSF.Fayaza,** MAM.Aazeer, MFHM.Adheeb,KF.Muhiminah, S.C.Premarathna, " Resolution Independent 2D Cartoon Video Conversion", *Int. J. Advanced Networking and Applications,* 07(05)**:**2849-2854, 2016

BOOK

- Saminda Premaratne, M. F. H. M. Adheeb, **M.S.F Fayaza**, "*Resolution Independent 2D Cartoon Video Conversion*", LAP LAMBERT Academic Publishing, ISBN10 81-7035-531-1 and ISBN13 978-81-7035-531-1, 2018

RESEARCH

Research interests

- Natural Language Processing (**NLP**)
- Artificial Intelligence and Machine Learning
- Big Data Analytics
- Human-computer interaction (**HCI**)

PROFESSIONAL MEMBERSHIPS

Member - Computer Society of Sri Lanka (CSSL)
Member - Young Scientists Forum (YSF)

PROFESSIONAL CERTIFICATION

- Big Data Foundations - IBM
- Data Science Foundations – IBM
- Introduction to Data Analysis Using Excel – RICE University
- Introduction to Git and GitHub – Google
- Programming for Everybody (Getting Started with Python) – University of Michigan
- Introduction to Social Media Analytics - Emory University
- Introduction to Web Development – COURSERA
- Usable Security – University of Maryland
- Programming Foundations with JavaScript, HTML and CSS with Honors – Duke University
- Introduction to Software Testing - University of Minnesota

SKILLS AND QUALIFICATION

- **Experience in:** (Proficient)Java, (Proficient)Xtend, C/C++, PHP, MySQL, HTML5/CSS, BPEL, Python,C,SQL,Javascript
- **Familiar with:**OpenCV, MPI, Weka, Cassandra, Matlab,HDFS, Wamp, Maven, Jaggery, JSP, Git,SVN, Selenium IDE, Hadoop, NLTK
- **Operating systems:** Windows, Linux
- **Methodologies:** Personal Software Process, Design Patterns, Agile
- **Language Skills:** English, Tamil, Sinhalese

PROJECTS

- **Towards Stopwords Identification in Tamil Text Clustering**
  Tamil stopwords identified. Technologies: word embbeding, clustering, TF-IDF
- **Tamil News Clustering**
  Using Clustering approch a news clustering system created for Tamil. Technologies: word embbeding, clustering, TF-IDF, document similarity mesures, affinity propagation algorithm, One pass clustering algorithm.
- **String similarity measurement**
  Using unsupervised string comparison algorithms measure the similarity between the sentence pairs in the data set. Technologies: Java, NLP techniques
- **Krypton tool & Test Automation**
  Worked with krypton and did scripting. Worked with P2P and messaging community smoke and regression test cases. Technologies- Xtend, maven, selenium
- **Resolution independent 2D cartoon video conversion**
  System to create resolution independent video from resolution dependent video. Technologies- C++, OpenCV, MS Visual Studio
- **Workflow support for provisioning related tasks - WSO2 SS**
  System to provide proper control over the storage resources for privileged user and prevent any unnecessary resource manipulation by non-privileged users. Technologies - BPEL, Java, Jaggery, Web Service
- **Email and SMS Notification Support for HumanTask Notification -WSO2 BPS**
  This is an improvement for the WSO2 Business Process Server. The system generates notification when Human Task created. TechnologiesJava, Axis2, SMSC, SMPP, WSO2 BPS
- **ERP System for car engine manufacturing company**

This is an ERP system for a company to enable the integration of their supply chain with their customers. Technologies- Java servlet,HTML/CSS, JavaScript, Web Service, Java, Google App Engine, Architecture- MVC architecture

- **Customer Information Portal, Internet Data Center, Sri Lanka Telecom**
  This is a web application to automate customer information management and automate customers related work flows at the Internet Data Center, SLT. Technologies – PHP, HTML5/ CSS, JavaScript, Ajax and MySQL
- **Automatic Speed Controller for Automobiles**
  Embedded system that allows to set a predetermined top speed for the vehicle and limits and prevents the vehicle from exceeding it by controlling the throttle. Technologies – Microcontrollers, Embedded Systems, Hall-effect sensor technologies, I2C communication
- **OBA Polonnaruwe Muslim Central College Web site**
  This is an official website for old boys association of PLMCC. Technologies –Bootstrap, WordPress, PHP, HTML/CSS, JavaScript
- **Blog post details analysis with MapReduce and Hadoop** – Big Data Analytics
- **Neural Network to recognize the hand written numbers in dataset** -Artificial Neural Networks & Evolutionary Computing
- **Sematic application to draw inference in private transport in Sri Lanka** - Semantic Web and Ontological Modeling
- **Computer Graphics and Animation Models** – Planetarium (Blender) Bank of Ceylon Head Quarters (Google Sketch-up)

EXTRA-CURRICULAR ACTIVITIES
- Completed **Toastmasters** Speech craft programs conducted by AAT toastmasters club.
- Girls' representative, Member Majlis –Ul- Islam University Of Moratuwa
- Intermediate Level of the University Student's Competency Test of Information Technology – HETC
- Participated in the Future Leaders Training (2011)
- St. John Ambulance - Km/ Al Mazhar Girls high School Nintavur (2004/2005) : Sargent
- The president of Mass Media Institute of Ceylon (M.M.I.C) School level Broad caster society - Km/ Al Mazhar Girls high School Nintavur (2004/2005)
- Prefect Board of Discipline -Km/ Al Mazhar Girls High School Nintavur Committee of 2004/ 2005
- Class monitor -Km/ Al Mazhar Girls High School Nintavur, Grade(7,8,9)
- Secured places in Mathematics Science Day, English Day, Tamil Day and Social Day competitions

REFERENCES ON REQUEST