Asif Iqbal Rahaman

LinkedIn: linkedin.com/in/asif-iqbal-r/
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Masters in Engineering - Computer Science; Curr. CGPA: 3.9

**EDUCATION** 

Virginia Polytechnic Institute and State University (Virginia Tech)

Blacksburg, US

+1(336)223-2730

asifiqbal.xyz

August 2022 - May 2024 (Expected)

Email: asif256000+job@gmail.com

Mobile:

Personal Website:

Courses: Information Security, AI for Software Development, Data Analysis, Machine Learning, NLP, Computer Vision

Vellore Institute of Technology

Vellore, India

Bachelor of Technology - Computer Science (minor - Bioinformatics); CGPA: 7.92

July 2015 - June 2019

Courses: Data Structure & Algorithms, AI, ML, DBMS, OS, Analytical Bioinformatics, Software Development, Deep Learning

SKILLS SUMMARY

• Programming: Python, SQL, Rust, C++, Bash, JavaScript

• Frameworks: flask, win32, pandas, numpy, AWS-CDK, scikit, matplotlib, seaborn, pillow, pyautogui, pytorch, opency

• Tools: Git, Jenkins, Subversion, MySQL, SQLite, MongoDb, DynamoDb, Docker, Parquet, RestAPI

• Platforms: Mac, Windows, Amazon Web Services (AWS), Linux, Web, Arduino, Heroku

EXPERIENCE

Virginia Tech - Department of Computational Cell Biology

Blacksburg, US

Oct 2022 - Present

o Initial Idea: Simulate cell cycle for boolean model of cancerous cells and identify nodes that improve or hinder their growth.

- Cell Cycle Interaction Model: Currently we analyse interaction data of all perturbations of the model, validate them from database (wherever applicable), and simulate them in parallel to identify the nodes that improve the performance.
- Preprint: Current manuscript available at biorxiv.org/content/10.1101/2023.10.30.564745v1

Seclore Technology Pvt Ltd

Mumbai, India

Dec 2021 - Jul 2022

Product Engineer

Student Data Analyst

- Cloud automation: Developed DevOps automation that was able to deploy complete product for a client in less than an hour in a fully managed and scalable AWS architecture. This decreased customer onboarding time from several days to few hours.
- Customer Infra Stack Codification: Implemented individual customer infrastructure as a AWS Cloudformation stack via aws-cdk and pynamodb modules in Python.
- Collaboration: Team of 3 worked with Subversion in an agile environment to develop the cloud automation.

Ericsson Global India Pvt Ltd

Bangalore, India

Jan 2019 - Jul 2021

Software Developer

- Surface Automation Framework: Worked on development of custom RPA framework that helped automate various network management tools. Automation gain with RPA framework reached 35% per month.
- Rule-based Data Analysis Engine: Developed rule-based recommendation and data analysis engine that calculates lists of high-impact network cells. The data analysis engine worked on large network data (10M rows and 5K cols, approx 30GB parquet file) on a daily basis for about 20 clients in less than 4 hours with a few parallel processing.
- Impact: With the rule-based recommendation & root cause analysis system automation gain reached 36% per month.
- Other projects: Integrated the custom RPA framework with existing automation platform. Also developed a system to fetch large amount of network data to local system via API, cleaned them and stored them as parquet files.

PROJECTS

- Multi-Object Tracking using GAN with FairMOT: Increasing efficiency and/ or accuracy in the field of multiple object detection and tracking using Generator from GAN with FairMOT and using Discriminator as a separate block in the architecture.
- EEG-to-Text with Relation Extraction: Converting EEG encoding and eye-tracking to text and extract relationships between them using Multi-Layer Transformer Encoder and single layer feed-forward networks.

CERTIFICATIONS

Python for Data Science and Machine Learning Bootcamp, Neural Networks and Deep Learning, Improving Deep Neural Network: Hyperparameter Tuning, Regularization and Optimization

Honors and Awards

• Galactic Award, Ericsson Global India Pvt Ltd (bi-annual award, 2020): For contribution to achieve outstanding business excellence with data automation framework (Reduced 35% man-hours with the data automation).

Interests

- Work: Automation, Cloud Technologies, Data Analysis, Intelligent Web and Software Development
- Research: Artificial Intelligence, Natural Language Processing, Machine Learning in real-world scenarios
- Reading: Technology related blogs; Recent developments in Python, Rust and other languages and frameworks
- Other: Photography, Soccer, Table Tennis, Fiction and Non-fiction novels