

# Curriculum Vitae

## Personal Information

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## Personal Statement

Ph.D. graduate in computer science with proactive initiative and collaborative teamwork skills. Meticulous attention to detail, insatiable curiosity, and adept organizational skills drive success.

## Education

- 10/2019– **PhD degree in Computer Science**, University of Luxembourg, Luxembourg  
11/2023
- 09/2016– **Masters in Computer Engineering (Exchange Student)**, University of Tartu, Estonia  
02/2017
- 09/2016– **Masters in Computer Engineering**, Sapienza University of Rome, Italy  
03/2019
- 09/2011– **Bachelor of Computer Software Engineering**, Foundation University Islamabad, Pakistan  
01/2015

## Experience

- 08/2024– **Research & Technology Scientist, Luxembourg Institute of Science and Technology (LIST)**, Ongoing CyberSecurity using Artificial Intelligence (AI)
- 11/2023– **Post-doctoral Researcher, University of Luxembourg**, Anomaly Detection using Log Data  
07/2024
- 2019-2023 **PhD Student, University of Luxembourg - in a partnership project with HITEC Luxembourg**, Anomaly Detection using Log Data
- Proficiently transformed diverse open-source datasets for anomaly detection using Python and essential libraries like Pandas and NumPy.
  - Unified deep learning pipeline developed for anomaly detection, integrating data preparation and deep learning-based detection using Python, TensorFlow, and Keras.
  - Introduced a novel metric to evaluate log parsing techniques, conducting empirical evaluations on 14 techniques across 16 datasets using Python.
  - Performed thorough Python-based analysis to assess how log parsing techniques impact anomaly detection accuracy, exploring 13 parsing techniques and 5 anomaly detection methods.

- 2017-2018 **Junior Android Developer**, Softflix (Startup), Rome

- Resolved issues and included additional functionalities using Dart and Flutter Framework.

## Technical Skills

Good skills in Python, C++, Pandas, Scikit-Learn, Virtual Machines, Docker, JIRA, Git, Latex, Dart, and basic knowledge in MySQL. Comfortable using MacOS, Linux, and Windows. Fluent in Microsoft Excel, Word, and PowerPoint.

## Publications

- 2024 Khan, et al. "Impact of log parsing on deep learning-based anomaly detection" *EMSE Empirical Software Engineering Journal* (2024).
- 2022 Khan, et al. "Guidelines for Assessing the Accuracy of Log Message Template Identification Techniques" *ICSE International Conference on Software Engineering* (2022).
- 2021 Shin, Donghwan, et al. "A Theoretical Framework for Understanding the Relationship Between Log Parsing and Anomaly Detection" *RV Runtime Verification* (2021).

## Languages

- Urdu **Mother-tongue**
- Punjabi **Fluent**
- English **Business fluent**
- Luxembourgish **A2.1**

## Extracurricular Activities

Hiking, Cycling, Table Tennis, Book Reading

- 2014 Quizz Competition Winner at Muhammad Ali Jinnah University, Islamabad
- 2012 Volunteering Work for organizing festivals at Foundation University, Islamabad.