Thanushika Thedsanamoorthysarma

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in Thanushika Thedsanamoorthysarma   ⌂ Thanu1611

Profile

A highly motivated individual with a passion for a long and firm career in the field of **Quality Engineering** who is willing to put the maximum effort into achieving productive results that could benefit both myself and my work environment. An **ISTQB Certified Tester** with strong foundational knowledge in software testing principles, committed to ensuring high-quality deliverables through structured and reliable testing practices.

Experience

Quality Engineer   Sysco LABS - Sri lanka
June 2025 – Present

- Continued the same responsibilities as Associate QE, contributing to automation and data validation using Python, Pandas, DT framework, and AWS tools.

Associate Quality Engineer   Sysco LABS - Sri lanka
Dec 2024 – May 2025

- Automated qe checks using Python, Pandas, and the DT framework.
- Built and maintained automated test cases for validating large datasets in AWS S3 and Amazon Redshift.
- Integrated Pytest for test execution and developed structured email reporting for stakeholders.
- Utilized SQLAlchemy and Typer to simplify database interactions and enhance code maintainability.
- Automated the extraction and processing of large datasets from legacy systems using SQL scripts
- Participated in defect triaging, performed root cause analysis, and collaborated with developers to ensure product quality.
- Conducted production failure analysis and took the necessary actions in response to recurring issues.

Intern Quality Engineer   Sysco LABS - Sri lanka
May 2024 – Nov 2024

- Worked on testing an e-Commerce platform, focusing on automating and manually testing key modules.
- Involved in requirement analysis, test planning, test case writing, test execution, defect reporting, and test result reporting.
- Manual testing: Conducted functional, API, integration, regression, and mock testing.
- Performance Testing: Led load testing efforts, including planning, preparing test data using automation scripts, creating JMeter scripts, executing tests, and analyzing/reporting results.
- Automation Testing: Automated UI tests with Selenium and TestNG using the SUTAF framework, AS400 applications with terminal drivers, and implemented the Page Object Model. Integrated database connections within automation scripts, automated API testing, and validated Kafka messages.
- Took on the Scrum Master role, facilitating stand-ups and driving sprint goals.

Education

BSc Hons in Computer Science - *University of Jaffna*   2020 – 2024

- OGPA: 3.70/4.00 – First Class
- **Key Courses:** Foundations of Computer Science, Software Engineering,Data Structures & Algorithms, Design of Algorithms, Operating Systems,Database Systems, Advanced Database Systems, Compiler Design,Artificial Intelligence, Machine Learning, Data Science, Information Systems Security, Computer Networks.

G.C.E. Advanced Level (Maths Stream) - *J/Chavakachcheri Hindu College*   2016 - 2018

- 3C's – Combined Mathematics, Chemistry, Physics
- Z-score - 0.927

G.C.E. Ordinary Level - *J/Chavakachcheri Hindu College*   2015

- 8 A's, 1 C (English)
- Subjects included Commerce, ICT, Tamil Literature.

Honors & awards

Dean's List Award - 2022   2025

- This is to certify that I was included in the Dean's list for the outstanding achievement in the Bachelor of Science Degree Is Examination - 2022,Level 4M with a remarkable GPA of 3.92.

Best Poster Presentation Award   Oct 2024

- Google exploreCSR Symposium – University of Jaffna
- Presented research titled "Semi-Supervised Active Learning for the Classification of Blood Cells", combining deep learning with semi-supervised and active learning approaches.

Seeds for the Future 2023 – Attendee   Sep 2023

- *Huawei Technologies Co., Shanghai, China*
- Selected to represent the **Sri Lanka** in Huawei's global Seeds for the future program. Received hands-on training in 5G, cloud computing and AI, while enhancing leadership and cross-cultural collaboration skills.

Dean's List Award - 2019   2021

- This is to certify that I was included in the Dean's list for the outstanding achievement in the Bachelor of Science Degree Is Examination - 2019,Level 1G with a remarkable GPA of 3.95.

Publications

Thanushika, T., Manivannan, S., and Nirthika, R.: "SSAL: A Self-Training-Based Semi-Supervised Active Learning Framework for Blood Cell Classification," *Computers in Biology and Medicine*, Elsevier, 2024. **[Under Review]** (IF: 7.0, SJR: 1.48)   Under Review

T Thanushika and R Nirthika, "Combined Semi-Supervised Learning and Active Learning (SSL&AL) Framework for the Limited Labeled Data", in the 2nd Issue of the 4th Volume of *ComSpective the ICT Technical Magazine* by the Faculty of Computing, Sabaragamuwa University of Sri Lanka. 2024.**[Accepted].**   Dec 2024

Projects

Semi-Supervised Active Learning (SSAL) framework   Aug 2023 - Dec 2024

- In my research, I developed a Semi-Supervised Active Learning (SSAL) framework for blood cell classification, addressing the challenge of limited labeled data. Traditional supervised learning requires extensive manual labeling, which is expensive and time-consuming. My approach efficiently combines Semi-Supervised Learning (SSL) and Active Learning.
- Tools Used: Python, Deep Learning, Semi-Supervised Learning, Active Learning

A Web-based Hospital Information Management System   May 2023 - Nov 2023

- This is Information management System developed with Laravel framework, for Department of Gynaecology and Obstetrics, Teaching hospital, Jaffna. This System will help to track the day to day patient's progress. And, this System being helpful for research students from Medical faculty, to do their research works.
- Tools Used: Laravel, JavaScript, PHP, Bootstrap, CSS

A Web-based Auditorium booking Management System   Dec 2022 - Oct 2023

- I have gained much experience as a Team Lead for our Undergraduate level Team Software Project, where we have developed a web application - Auditorium Booking Management System
- Tools Used: Laravel, JavaScript, PHP, Bootstrap, CSS

Technical Skills

- **Languages:** Java, Python, PHP, HTML, CSS

- **Automation Tools:** JMeter, Selenium, TestNG, AS400 Application – Terminal Driver

- **API Tools:** Insomnia

- **Test Case Management:** QMetry

- **Bug Reporting:** Jira

- **Version Control:** GitHub

- **Log Analysis:** Datadog

- **File Management:** WinSCP (SFTP)

- **Databases:** MySQL, PostgreSQL

- **Cloud Solutions:** AWS

- **Data Streaming & Messaging:** Kafka

- **Operating Systems:** Windows, Ubuntu

- **IDEs:** Visual Studio, MATLAB, TeXstudio, IntelliJ, PyCharm

Soft skills

- Project Management

- Team Player

- Fast Learner

- Time Management

- Leadership

- Effective Communication

- Critical Thinking

Languages

- Tamil - *Native Language*

- English - *Professional Level*

Professional Membership

- **IEEE Student Member** - 2023.

- **Student Member**, Computer Society, University of Jaffna – 2020-2024.

Attended Conferences & Workshops

- **19 Oct 2024** – Google exploreCSR Symposium, organised by the Dept. of Computer Science, University of Jaffna.

- **9 Dec 2023** – Sri Lanka Student Workshop on Computer Science (SL-SWCS'23), organised by the Dept. of Computer Science, University of Jaffna.

- **12–14 Jul 2023** – IEEE Summer School in Computational Intelligence, organised by IEEE-CIS-SB-UoJ.

Certificates

- **Java** – Certified by Sololearn

- **SQL Fundamentals** – Certified by Sololearn

- **PY0101EN: Python Basics for Data Science** – Certified by edX, Authorized by IBM

- **Certified Tester – Foundation Level (CTFL; Core) v4.0** – ISTQB (International Software Testing Qualifications Board)

- **Certified Tester – Mobile Application Testing (CT-MAT; Specialist) v2019** – ISTQB (International Software Testing Qualifications Board)

Referees

Prof. M. Siyamalan

Professor

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