

## EDUCATION

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### University of Mons (UMONS)

Ph.D. in Software Engineering, Advisor: Prof. Tom Mens

Mons, Belgium

2021, Oct, 21 – Current

- Thesis title: “Understanding the Evolution of GitHub Actions Automation Workflows”

### Sharif University of Technology (SUT)

M.S. in Software Engineering, Advisor: Dr. Abbas Heydarnoori, GPA: 18.30/20

Tehran, Iran

2019, Sept, 1 – 2021, Sept, 20

- Thesis title: “Automatic Linking of Issue Reports and Commits in Software Repositories”

### K. N. Toosi University of Technology (KNTU)

B.S. in Computer Engineering, Advisor: Dr. Ali Ahmadi, GPA: 17.64/20

Tehran, Iran

2015, Sept, 1 – 2019, Jun, 20

- Thesis title: “Deaf Disease Genes Detection Using Artificial Intelligence Tools”

## RESEARCH EXPERIENCES

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### • Research

- **2026, Jan, 6 - 2026, Apr, 4:** PhD Researcher @ SEL Lab @ University of Mons
- **2021, Oct, 21 - 2025, Jan, 4:** PhD Researcher @ SEL Lab @ University of Mons
- **2019, Oct, 1 - 2021, Sept, 20:** Master Student Researcher @ ISE Lab @ SUT
- **2019, Jan, 1 - 2019, Aug, 1:** Research Internship @ IIPL @ KNTU

### • Mobility

- **2019, Oct, 1 - 2021, Sept, 20:** Visiting Researcher @ Radboud University

### • Organizations

- **2022, Apr, 10 - 2022, Sept, 21:** Workshop publicity chair for BENEVOL 2022

### • Academic Service

- Participating in peer review for Journal of Systems and Software (JSS)
- **2025, Nov, 1 - 2026, Jan, 1:** Junior PC @ International Conference on Technical Debt (TechDebt 2026)

### • Talks

- **2023, Mar:** Presented qualitative research methodology in the form of a full-session lecture to master's students

## TEACHING EXPERIENCES

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### • Teaching Assistant

- **Feb, 2 - May, 24 of 2022, 2023, 2024, 2026:** **Software Evolution** To computer science **master** students @ Faculty of Sciences @ UMONS
- **2020, Sept, 1 - 2020, Dec, 10:** **Data Science for Software Engineering** To Software Engineering **master** students @ Faculty of Sciences @ SUT
- **2019, Jan, 10 - 2019, May, 20:** **Database Design** To Software Engineering **bachelor** students @ Faculty of Sciences @ SUT
- **2018, Sept, 1 - 2018, Dec, 10:** **Data Structure & Database Design** (two separate courses) To Software Engineering **bachelor** students @ Faculty of Sciences @ KNTU

### • Master Students Defense

- **2024, Jun:** Attend as a jury member of Master Thesis defense

## PROFESSIONAL EXPERIENCES

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- **2025, Jan, 5 - 2026, Jan, 5:** Cloud Engineer/Data Analyst @ Necko Technologies

## SELECTED PUBLICATIONS (GOOGLE SCHOLAR LINK)

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1. **P. Rostami**, A Decan, T Mens, “gawd: A Differencing Tool for GitHub Actions Workflows”, *Mining Software Repositories conference(MSR)*, 2024, Tool's link: <https://github.com/pooya-rostami/gawd>  
<https://doi.org/10.1145/3643991.3644873>
2. M Wessel, T Mens, A Decan, **P. Rostami**, “The GitHub Development Workflow Automation Ecosystems”, *Software Ecosystems: Tooling and Analytics, Book chapter, Springer Nature*, 2023,  
[https://doi.org/10.1007/978-3-031-36060-2\\_8](https://doi.org/10.1007/978-3-031-36060-2_8)
3. **P. Rostami**, T Mens, A Decan, M Golzadeh, “On the usage, co-usage and migration of CI/CD tools: a qualitative analysis”, *Empirical Software Engineering Journal (EMSE)*, 2023,  
<https://doi.org/10.1007/s10664-022-10285-5>
4. A Decan, T Mens, **P. Rostami**, M Golzadeh, “On the Use of GitHub Actions in Software Development Repositories”, *International Conference on Software Maintenance and Evolution(ICSME)*, 2022,  
<https://doi.org/10.1109/ICSME55016.2022.00029>
5. **P. Rostami**, M Izadi and A. Heydarnoori, “Automated Recovery of Issue-Commit Links Leveraging Both Textual and Non-textual Data”, *International Conference on Software Maintenance and Evolution(ICSME)*, 2021,  
<https://doi.org/10.1109/ICSME52107.2021.00030>

## OPEN SOURCE TOOLS

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- **gawd (GitHub Actions Workflow Differ) – Python** 2024  
*Developed an open-source Python library and CLI tool to compute structural differences between GitHub Actions workflows, identifying added, removed, moved, renamed, or modified items with syntax-aware comparison.*

## SCHOLARSHIPS AND AWARDS

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- ICSME 2022 Distinguished Paper Award for “On the Use of GitHub Actions in Software Development Repositories”. (<https://cyprusconferences.org/icsme2022/>)
- MSR 2022 best Hackathon Paper Award for “Bot detection in GitHub repositories”. (<https://conf.researchr.org/info/msr-2022/awards>)

## CERTIFICATE

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- “**AWS Certified Solutions Architect – Associate**” May, 2025  
*Certificate link: <https://www.credly.com/badges/0db7e80d-1a63-45da-9501-fe17a607f6cf>*
- “**AWS Certified Cloud Practitioner**” Feb, 2025  
*Certificate link: <https://www.credly.com/badges/42d89f68-b12b-4b50-b38c-3f5fb79423bf>*
- “**The Power of Statistics**” Coursera certificate Sep, 2023  
*Certificate link: <https://coursera.org/share/c0bad269d416082d0511e640cdc588b0>*

## TECHNICAL SKILLS

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- **Software Development Technologies & Methodologies:** Agile (Scrum), DevOps, IDEs (VS Code, IntelliJ, JupyterLab), testing framework (pytest), Git, Atlassian (Bitbucket, Jira), Docker, Linux/Unix
- **Coding:** Python, TypeScripts, HTML, CSS
- **Database:** RDBMS such as MySQL, MS SQL
- **Data Analysis Libraries & Technologies:** Pandas, Keras, sci-kit learn, NumPy, NLTK, HuggingFace, PySpark
- **ML Algorithms:** Classical Machine learning, and deep learning algorithms (SVM, Random Forest, CNN, LLMs)
- **AWS:** S3, Glue, Athena, Lambda, Step Functions, RDS, Kinesis, QuickSight, etc.

## LANGUAGES

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**English:** Fluent

**French:** Intermediate Proficiency (B1 ongoing)

**Persian:** Native