Roi Alfassi

1994

M.Sc. Information Systems

- Roialfassi@gmail.com
- 050-900-6794
- https://github.com/Roialfassi
- https://roialfassi.github.io/roi-portfolio/

About Myself

I am an M.Sc. graduate in Information Systems specializing in **Python, NLP, AI, LLMs, Data Science and Data Engineering.** I am currently working as an **AI Engineer** in **AIO Systems,** and I have a year of experience as a **Data Engineer** and **multiple GenAI certificates**.

Experience

AI Engineer – AIO Systems (2025-Present)
- Developed and integrated an LLM into the System via custom chat and integration of insights on pages.
- Enhanced data validation and accuracy by implementing predictive models and optimizing ETL processes.
- Extracted key business insights and KPIs from existing data to support decision-making.

Data Engineer NLP Team – Webiks (2022-2023)
- Developed **data pipelines** and retrieval systems for **NLP** applications. (**ETL**)
- Managed **AWS infrastructure** (**EC2**, **S3**)
- Cleaned and transformed raw data into structured formats (**JSON, CSV, HTML**).
- Maintained and enhanced existing tools while developing new applications in **Python & Vue.js.**
- **Security clearance** obtained.

Automation Developer – Rafael (2020-2022)
- Designed and implemented **automated testing frameworks.**
- Created tools for **data validation, analysis, and automation.**
- Developed test scenarios and automated result analysis using **Pandas (Python).**

Teaching Experience

Teaching Assistant – University of Haifa (2020 - 2022), (2024-2025)
- Taught **C programming** course.
- Taught Data Structures and Algorithms Course.
- Research Assistant, Human-AI decision making under stress.

Atid College – Final Project Facilitator & Teaching Assistant (2018-2021)
- Guided students in Java and Web Development final projects.
- Instructed courses in **C and Object-Oriented Programming.**

Education

Master of Science (M.Sc.) in Information Systems (2020 – 2025) - University of Haifa, Israel - **GPA: 90 - Thesis Grade: 95**

- Specialization: **Artificial Intelligence, Data Science, Information Visualization**
- **Thesis**: *Fanfiction in the Age of AI: Community Perspectives on Creativity, Authenticity, and Adoption.*
- Accepted papers to **IUI 2025** HAI-Gen (Italy), **NetsciX** 2025 (India) and **IsraHCI** 2025 (Israel)

Bachelor of Science (B.Sc.) in Information Systems (2016 – 2019) University of Haifa - Haifa, Israel - **GPA: 82.2**

Awards and Honors
- **Research Excellence Award**, [University of Haifa], [Haifa, Israel] (2025)

Certifications & Publications

- **Google Cloud**: Prompt Engineering Guide, Introduction to Large Language Models, Responsible AI, Generative AI.
- **Research Publications**: Accepted paper in **NetsciX** 2025 on Identifying differences between human and AI-generated fanfiction stories
- **IUI 2025:** Accepted paper to **HAI-Gen Workshop - Online Storytelling Spaces**: Exploring Participants' Perceptions of Overt and Covert AI Agents
- Accepted paper to **Taylor and Francis Journal**

Skills

Programming: Python, C, C#, Java, Golang

Machine Learning & AI: NLP, Data Science, Generative AI, Deep Learning, Machine Learning.

Web Development: Vue.js (and all the basics)

Databases: MySQL, SQL Server, MongoDB, SQLite

Cloud Services: AWS (EC2, S3), Azure, Firebase

Other: Data Engineering, Software Testing, Automation, Large-Scale Data Processing

Languages - Hebrew, English. Both Fluent.

Military Service - RF Technician - IDF – (2013-2016) Full mandatory military service