Sari Lakkis

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SUMMARY

PhD in Electrical Engineering, Electronics, Photonics and Systems, with experience in software development, data science, and computer vision. University lecturer in computer science, founder of the data platform Econotics, and author of *Python as a First Language*.

EXPERIENCE

Founder | Econotics | 2024 – Present

- Founded and developed Econotics (econotics.com), an independent data and research platform focused on economic, financial, and socioeconomic information.
- Developed tools and workflows for collecting, organizing, validating, analyzing, and visualizing data from multiple sources.
- Built interactive features for exploring historical indicators, country-level information, and cross-country comparisons.

Lecturer | American University of Beirut (AUB) | Jan 2022 – Jan 2026

- Taught computer science and engineering courses, including database systems, software engineering, mobile application development, computer architecture, and Python.
- Supervised student work on applied software projects.
- Conducted research in computer vision and related areas and integrated practical software development experience from professional projects into teaching.

Adjunct Professor | Lebanese International University (LIU) | 2014 – 2021

- Taught computer science courses, guiding students through theoretical concepts and real-world applications in software engineering and technology.

Systems Developer | Self-employed | 2013 – 2024

- Designed and built software systems for clients and independent projects, from requirements to delivery.

Founder | AklamElmia | 2009 – 2015

- Founded AklamElmia, an Arabic science and technology platform with interactive features and tools.
- Built and managed the platform, delivering accessible knowledge to a wide audience.
- Led content creation and development, ensuring quality and relevance.

EDUCATION

PhD in Electrical Engineering, Electronics, Photonics and Systems
Université de Versailles Saint-Quentin-en-Yvelines, France | 2015
Thesis: A New Pollution Sensor for Exhaust Gases in Combustion Engines

Master's in Science and Technology of Information and Communication
University of Technology of Compiègne (UTC), France | 2008 – 2009

Diploma in Electrical and Electronic Engineering
Lebanese University, Faculty of Engineering | 2003 – 2008

PUBLICATIONS

- Sari Lakkis (2026). *Python as a First Language: Building Practical Programming Foundations*. Independently published. [Book]
- Sari Lakkis, Rafic Younes, Mazen Ghandour, Yasser Alayli (2015). "New Optical Gas Sensor for Gas Concentration Measurement Using Digital Image Processing." Sensors and Actuators B: Chemical, Elsevier, Vol. 207, Part A, pp. 321–329. [Journal Article]
- Sari Lakkis, Rafic Younes, Yasser Alayli, Mohamad Sawan (2014). "Review of Recent Trends in Gas Sensing Technologies and Their Miniaturization Potential." Sensor Review, Vol. 34, Iss. 1, pp. 24–35. [Journal Article]

TEACHING PROFILE

Graduate: Advanced Database Systems, Advanced Algorithms

Undergraduate: Software Engineering, Database Systems, Python for Data Science, Web Development, Mobile App Development, Data Structures and Algorithms

SKILLS

Data Science & AI: Machine Learning, Deep Learning (PyTorch), Data Analysis & Visualization, SQL, Pandas

Computer Vision: OpenCV, Image Processing

Programming Languages: Python, Java, C/C++, Kotlin, Swift, C#

Web Development: FastAPI, ASP.NET, JavaScript, HTML, CSS

Mobile App Development: Native Android/iOS Development