

Rayan Baderdine

Computer & Communication Engineer

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SUMMARY

Accomplished professional with expertise in software development and embedded systems engineering. Proficient in Java, C++, Python, and Azure to design robust applications and optimize system performance. Committed to leveraging technical skills and engineering knowledge to drive innovation and deliver impactful technology solutions.

WORK EXPERIENCE

Data Science Intern | *Codveda Technology — Remote* *Mar 2026 — Present*

- Completed 6 end-to-end data science projects across 3 difficulty levels within 1 month.
- Built a web scraper using BeautifulSoup & requests to collect and store structured data (CSV/JSON).
- Performed full data cleaning & preprocessing: missing value imputation, outlier removal (IQR), encoding, and normalization using pandas and scikit-learn.
- Developed regression models (Linear Regression, Decision Tree, Random Forest) — $R^2 = 0.89$ on Boston Housing dataset.
- Built a multi-class classifier (Logistic Regression, SVM, Random Forest) achieving 96.7% accuracy on Iris dataset.
- Implemented NLP sentiment classification using TF-IDF vectorization, Naive Bayes & Logistic Regression.
- Designed a feed-forward neural network (MLP, 3 hidden layers) with backpropagation & hyperparameter tuning — 96.7% test accuracy.
- Tools: Python, scikit-learn, pandas, matplotlib, NLTK, BeautifulSoup, NumPy.

Tutor | *Self-employed* *Oct 2024 — Jul 2025*

- Clarified complex concepts during sessions to improve student comprehension and increase overall academic performance.
- Designed customized lesson plans addressing individual learning styles and promoted sustained engagement throughout the course.
- Monitored student progress regularly to identify knowledge gaps and adapt teaching methods for consistent improvement.

Member in Tutoring Academy (Summers) | *Summer Academy* *Jun 2018 — Present*

- Contributed curriculum adaptation to diverse learning styles, increasing student confidence and fostering a more inclusive educational environment.
- Monitored student progress during sessions to identify learning gaps, enabling timely support that enhanced overall academic performance.
- Engaged students in interactive problem-solving activities that strengthened critical thinking skills and increased enthusiasm for challenging subject matter.

EDUCATION

Master in Computer & Communication Engineering | *Lebanese International University* *Oct 2025 — Jun 2027*

- Developed a Driver Fatigue Detection System (RISC-V, FreeRTOS)
- Developed a noise deletion audio filter using MATLAB

Bachelor of Science in Communication Engineering | *Lebanese International University* *Oct 2021 — Jun 2024*

- Developed a website for mayors in Lebanon as a senior project
- Spectrum Analyzer
- Library Management System (SQL)
- BJT differential amplifier
- Guess the magical number (microcontroller)
- 4-bit binary adder
- Smart blind stick (Arduino)

SKILLS

Java, C, C++, C#, Python, Octave, HTML, CSS, JavaScript, PHP, SQL, Assembly, .NET, Azure, Android Studio, Arduino, AVR Microcontroller, Proteus, TinkerCAD, Atmel Studio, LTSpice, NetBeans, Visual Studio, Packet Tracer, MySQL, MATLAB, RISC-V, scikit-learn, pandas, matplotlib, NLTK, BeautifulSoup, NumPy.

COURSES

- HTML, CSS, and JavaScript for Web Developers — John Hopkins University (Jun 2025)
- Build a Free Website with WordPress — Coursera (Jun 2025)
- Fundamentals of Machine Learning and Artificial Intelligence — Amazon Web Services (May 2025)
- Foundational C# with Microsoft — Microsoft (Aug 2025)
- Azure Data Scientist Training — Microsoft (Mar 2026)

LANGUAGES

Arabic (Native) • English (C2 — Proficiency)

REFERENCES

Available upon request.

LINKS

TinkerCAD: <https://www.tinkercad.com/users/3g2vVRJzZDn?type=circuits>

LinkedIn: <https://www.linkedin.com/in/ryan-baderdine-5b32992a2>

GitHub: <https://github.com/ryan-baderdine>