

ANIS MATTA

Software Developer

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Curious and hardworking developer pursuing dual degrees in Computer Science and Mathematics. Passionate about building smart, efficient solutions and continuously learning new technologies. Calm under pressure, detail-oriented, and ready to contribute to real-world projects.

TECHNICAL SKILLS

Languages	Java, Python, JavaScript, Go (Golang), PHP, C++
Web	React, Vite, Tailwind CSS, HTML5, CSS3, Responsive Design
Data Science / ML	scikit-learn, pandas, SHAP — regression, classification
Databases	MySQL — schema design, queries, integration
Mathematics	Linear Algebra, Calculus, Statistics, Data Analysis
Concepts	OOP, Algorithms, Debugging, Software Design Patterns
Tools	Git / GitHub (version control)

PROJECTS

Matrix Calculator (matricCalc) -- React, Vite, Tailwind CSS, JavaScript

- Built and deployed an interactive linear algebra web app with four calculator modules — matrix operations, vector spaces, linear transformations, and matrix factorizations (LU, QR, diagonalization) — covering 20+ operations, live on Vercel
- Designed a reusable matrix input component shared across all modules, supporting dynamic dimensions up to 15×15, regex-based numeric validation, and contextual warnings for invalid operations (e.g., determinant or inverse on non-square matrices)
- Implemented a fully responsive UI with persistent dark mode, smooth-scroll navigation with flyout menus, and an EmailJS-integrated contact form

Post-COVID Outcome Predictor -- Python, scikit-learn, pandas, SHAP

- Built an ML pipeline predicting four post-COVID outcomes (number of manifestations, severity, fatigue/FSS score, anxiety/GAD-7 score) from a 60+ feature patient dataset, using Random Forest regression and classification models
- Performed data cleaning and feature engineering: handled missing values, consolidated noisy categorical fields, engineered comorbidity groupings, and validated feature relevance with chi-square testing
- Applied Isolation Forest for outlier removal and used SHAP (violin, bar, force plots) to explain model predictions and feature importance for each

EDUCATION

Fall 2023 – Fall 2026	B.Sc. Computer Science Holy Spirit University of Kaslik (USEK)
Fall 2023 – Fall 2026	B.Sc. Mathematics (Dual Enrolment) Lebanese University (LU)
Graduated 2023	Secondary School Certificate (Baccalaureate) Collège des Sœurs du Rosaire, Blat-Jbeil

LANGUAGES

Arabic Native **English** Fluent **French** Intermediate