

JOHN MILAN

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ABOUT ME

Computer Science student passionate about software engineering, Artificial Intelligence, backend systems, workflow automation, cloud technologies, and scalable full-stack applications. Experienced in building responsive web platforms, REST APIs, authentication systems, databases, AI-powered workflows, and cloud-based architectures using PHP, Laravel, Node.js, React, Python, SQL, and modern web technologies.

EDUCATION

Lebanese American University (LAU)

2023 – 2026

BSc in Computer Science – Software Engineering Track

PROJECTS

UniMate — AI-Powered Full-Stack Smart Matching Platform

- Built a full-stack platform for roommate matching, dorm reservations, and carpool coordination.
- Developed REST APIs using Node.js, Express.js, and PostgreSQL.
- Built responsive frontend interfaces using React.js and Tailwind CSS.
- Integrated AI-powered chatbot and matching workflows using Gemini API, OpenAI API, and n8n.
- Implemented JWT authentication systems, role-based access control, workflow automation, debugging, and testing.

AI-Driven Predictive Maintenance for Offshore Wind Turbines

- Developed machine learning models using Python, Random Forest, and XGBoost.
- Worked with industrial SCADA datasets for preprocessing, anomaly detection, feature engineering, and model evaluation.
- Achieved an F1-score of 0.774 and ROC-AUC of 0.855 for predictive maintenance analysis.

Business Review Platform — Full-Stack Web Application

- Built frontend interfaces and backend APIs for a review and feedback management platform.
- Optimized MongoDB database interactions and implemented secure authentication workflows.
- Worked with scalable application logic, debugging, testing, validation, and performance optimization.

AI Workflow Automation Project

- Developed workflow automation systems integrating APIs, chatbot systems, and external services using n8n.
- Worked with backend integrations, intelligent automation pipelines, debugging, testing, and workflow optimization.

AWS IAM Architecture & Cloud Security Project

- Designed AWS cloud infrastructure using EC2, Lambda, S3, CloudWatch, and CloudTrail.
- Applied monitoring, logging, backup, automation, and security concepts for scalable cloud systems.

PROFESSIONAL EXPERIENCE

Casapa – Software Engineering Intern

Jun 2025 – Aug 2025

- Developed ERP modules and backend workflows using Python and the Odoo framework.
- Implemented XML interfaces, workflow automation systems, ORM models, and backend business logic.
- Worked with databases, debugging, testing, optimization, Agile workflows, and Git version control.

TECHNICAL SKILLS

- **Languages:** PHP, Python, JavaScript, Java, SQL, C++, C
- **Frontend:** React.js, HTML, CSS, Tailwind CSS, jQuery
- **Backend:** PHP, Laravel, Node.js, Express.js, REST APIs, Odoo
- **AI & ML:** Gemini API, OpenAI API, Workflow Automation, Random Forest, XGBoost, Scikit-learn
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud & Tools:** AWS, Docker, Kubernetes, Git, GitHub, Postman, CI/CD Concepts
- **Concepts:** OOP, Authentication, RBAC, Scalable Systems, Distributed Systems, Debugging, Testing

SOFT SKILLS & LEADERSHIP

- Head Coach – Under 16 Futsal Team (AUST)
- Assistant Coach – Division 2 Futsal Team (AUST)
- Head Coach – Under 10/12/14 Futsal Teams (DES)
- Strong communication, teamwork, adaptability, analytical thinking, leadership, and problem-solving skills