# Maryam Zien Al-Deen

## Software Developer & Engineer

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Software Developer with expertise in web development, DevOps, and IoT-based robotics. Skilled in application development, cloud infrastructure, and CI/CD automation. Passionate about scalable solutions and workflow optimization.

## Professional Experience

**Tutor for Native and Foreign Speakers |Zoom, Google Meet, Teams**                              2021 – Present

- Delivered personalized instruction to students of diverse proficiency levels.
- Developed interactive and engaging learning strategies, improving student success rates.
- Created a reward-based learning system, fostering engagement and motivation.

## Education

**Bachelor in Computer and Communication Engineering | IUL**                              2022 – Present

**Bachelor in Biochemistry | Lebanese University**                              2020 – 2024

### Certificates

**SCRUM Project Management|** PMI Authorized                              2024

**Hackeuses Program (Web CMS Development) |** AUF & Simplon **(210 hours)**                              2024

**DevOps Engineer|** Forward Mena                              2024

**Docker, Kubernetes, Terraform & Ansible Certified Associate |** Forward Mena                              2024

**TOT- Qualified Trainer and Teacher for Non-Native Speakers |** Dhad International Center                              2022

### Technical Skills

- Programming: Python, JavaScript, PHP, C++, C#
- Web Development: React.js, Node.js, HTML, CSS, WordPress
- Databases: MongoDB, MySQL
- Cloud & DevOps: Docker, Kubernetes, Terraform, Ansible, Jenkins, AWS, CI/CD Pipelines
- Version Control: Git, GitHub, GitLab
- Tools & Technologies: Linux, Bash Scripting, Jira, Agile & Scrum.
- UI/UX & Design: Wireframing, Prototyping, User-Centered Design, Web Performance Optimization

## Professional Development and Seminars

- **Software Engineering Bootcamp| AUF**                              2025

- **Full-Stack Web Development Training | Aosis Tech Inc. (6 month)**                              2025

- **Electronic & Robotics - Arduino | Gil and Rural Entrepreneurs**                              2024

- **Soft Skills Training | Caritas**                              2023

- **Stream into college | AUB**                              2022

**Projects**

- **Web Development Projects:**

  - **Elixir** (Coffee Shop Website): Responsive, user-friendly website using React & CSS.
  - **PawPal** (E-Commerce for Pet Robots): WooCommerce & WordPress-integrated store.
  - **The Meat City** (Restaurant Website): Dynamic menu & ordering system.
  - **Tutti-Frutti** (Candied Fruits Shop): Engaging storefront for improved UX & sales.
  - **Portfolio Website**: Created two versions: WordPress & HTML/CSS.
  - **Gaming Website**: Front-end gaming-themed project.

- **PawPal: AI-Powered Pet Robot**

  - Automated pet care: feeding, hydration, and health tracking.
  - Integrated IoT sensors for real-time monitoring.
  - Award-winning project with multiple funding rounds.

- **DevOps & Cloud**

  - **CI/CD Automation** : Jenkins, Docker, Ansible for continuous deployment.
  - **Kubernetes Deployment**: Developed & deployed Redis-based Docker image.
  - **Scalable Cloud Infrastructure**: Automated VM provisioning & configuration with Terraform & Ansible.
  - **Multi-Tier App Deployment**: Managed PHP & MySQL in Kubernetes, optimizing security & resources.

- **CardioRisk: AI-Powered Cardiovascular Disease Prediction**

  - Developed an LSTM-based model for predicting cardiovascular disease.
  - Implemented data preprocessing, feature encoding, and model evaluation.
  - Utilized deep learning techniques for improved medical diagnosis accuracy.

- **Cashier System** : Point-of-sale app with internal storage.

**Awards & Achievements**

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| **GIL National Competition\|** 2nd place, $1,500 funding for PawPal | 2025 |
| **The Nawaya Network \|** 1st place, $1,500 for PawPal | 2024 |
| **Git & GitHub Award \|** Led a winning team for on-time project delivery | 2024 |
| **Best Commitment Collage Student Award \|** AUB | 2022 |

**Volunteering**

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|---|---|
| **Organizer \|** Annual Robotics Competition | 2022 |
| **Organizer & Presenter \|** Science Festival, Lebanese University | 2022 |

**Languages**

Arabic (Native); English (Proficient in speaking, reading & writing); French (Beginner)