RAMI YOUNES

Software Developer

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TECH STACK

Python | Java | C++ | HTML/XML/CSS | PHP | XML/JSON/YAML | JS | SQL | noSQL | MongoDB | Redis | Docker | Kubernetes

MacOS | Linux | Office | MS Windows | LaTeX | Git | CI/CD

EDUCATION

Ph.D. in Computer Science and Robotics |
Grenoble Alpes Univ.
2020 – 2024

Master in Theoretical Computer Science |
Montpellier Univ.
2018 – 2020

Bachelor in Computer Science and Applied Mathematics |
Lebanese Univ.
2015 – 2018

LANGUAGES

English: Bilingual
French: Bilingual
Arabic: Native

OTHES SKILLS

Univ. Educator |

Autonomous | Persistent | Team player

ABOUT ME

I am a software developer and my experience spans front-end and back-end development, data handling, and cloud technologies. Through my work and studies, I have honed problem-solving skills, analytical thinking, and a structured approach to tackling complex challenges. Working on a big project, I am used to staying focused and adaptable in the face of challenges and effectively communicating ideas to both technical and non-technical audiences.

EXPERIENCE

Research Engineer | Gipsa-lab | LIG

2020 – 2024 | Grenoble, France

- **Real-time Simulation & Robotics:** Developed and tested robotic simulations using **ROS, MoveIt, RViz**, optimizing performance.
- **Data Processing & Visualization:** Analyzed large datasets with **Python, R**, and developed visualization tools for insights.
- **Full-stack Development:** Built front-end interactive interfaces using **React, Next.js, Three.js…** and developed back-end systems with **Node.js**. Integrated **PostgreSQL, MySQL** for data storage and managed API to support research experiments.
- **Collaboration & Technical Writing:** Published research, presented findings, and collaborated in multidisciplinary teams.
- **Containerization & Orchestration:** Deployed research applications using **Docker** and **Kubernetes**, ensuring scalability and reproducibility.
- **Logic Programming & AI:** Developed rule-based models and reasoning systems using **Prolog** for **Automated Planning**.

Intern - Deep Learning for Constraint Acquisition | LIRMM

2020 | Montpellier, France

- Developed an intelligent system using **neural networks** to model **constraint programming problems** and classify solutions to **complex combinatorial problems**.
- Designed a **taxonomy** to categorize constraint programming problems by complexity and trained deep learning models for automated classification.
- Evaluated and validated classification accuracy to ensure reliability.

PUBLICATIONS

HUMANOIDS | Impact of verbal instructions and deictic gestures of a cobot on the performance of human coworkers

Thesis Project | Human-robot collaboration in shared tasks

SIGDIAL | Automatic Verbal Depiction of a Brick Assembly for a Robot Instructing Humans