Amalia Magana

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EDUCATION

NATIONAL INSTITUTE OF APPLIED SCIENCES (INSA) TOULOUSE
Master of Engineering with major in Computer Science
2019--Expected 2026
minor in Network

JEAN MOULIN HIGH SCHOOL, PEZENAS
Scientific high school diploma (A-level) with honors
2016--2019
Mathematics option

EXPERIENCE

AVL SOFTWARE AND FUNCTIONS | Developer intern
June-September 2025 | Regensburg, GERMANY
- Develop AI tools in python with libraries
- Full pipeline from chat to tools
- I keep to date with updates and releases

ZEWATT | Cable Operator intern
July 2021 | Toulouse, FRANCE

- Main Task : wiring charging stations according to plans
- My role included validating and testing my own work
- This was my first work experience as a team member

INSA JUNIOR ENTERPRISE (JIS) | Member of the Chief Information Officer's team
Oct 2020– Oct 2021| Toulouse, FRANCE
- I helped to ensure the change of web host and the new version of the website
- I consider solutions to create an intern database system
- I took part in monthly meetings

SCHOOL PROJECTS

CHATSYSTEM | Class Project for Distributed Client-Server Programming
Oct 2024 – Jan 2025
- Conceive, code and use the message local database using MySQL
- Provide test for different Java class managing the message transfer using JUnit

LIGHT MANAGEMENT | Class Project for Managing a Sensor Network
Sept 2024 – Jan 2025 | Somewhere, XX
- Design the MAC frame format to meet the constraints and being able to interface it with the Physical Layer
- Code in Python the Data Link Layer and test it

SKILLS

PROGRAMMING
2+ years:
Python • Ada • Java
1+ years:
C • Matlab • HTML
0+ years:
SNMP • CSS • JavaScript

TECHNOLOGY
Git/Github • PostgreSQL • Linux
JUni t• UNIX • Jira • Office • API
Network • Agile Methodology
Postman • Kubernetes

LANGUAGE

FRENCH
Native

ENGLISH
Good Level

SPANISH
Basic knowledge

COURSEWORK

GRADUATE
Network Protocols
(BGP,OSPF,IPv6)
Real Time Programming
Introduction to Security

UNDERGRADUATE
Analysis of Algorithms
Object Oriented Programming
Database conception

INTERESTS

THEATER
- Over 8 years of practice
- Short time projects resulting in public presentations

DANCE CLUB PRESIDENCY
- Ensured the set up of a weekly rock dance class
- Collaborated with qualified teacher

YOUTH WORK QUALIFICATION
- Capable of overseeing a group of children
- Daycare or summer camps context