

# Salma Garmouti

Software Engineering Student



Maroc



GarmoutiSalma



Salma GARMOUTI



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## EXPERIENCE

### AI/BACKEND ENGINEER INTERNSHIP

June 2022 – September 2022 | PULL4YOU SERVICES S.A.R.L, Casablanca, Morocco

- Engineered on-demand transportation service, enhancing user experience by generating the route 400% times faster
- Constructed web app for optimized route planning, decreasing travel time.
- Analyzed and optimized multi-vehicle path.
- Devised fuel-saving route optimization plan.
- Engineered algorithm for efficient vehicle paths.
- Incorporated traffic patterns and road conditions into algorithm.
- Integrated error detection system, reducing delays.
- Implemented optimization system into existing backend.

**Skills Acquired** : Scrum · Docker · Agile Methodologies · Trello · GitHub · Django REST Framework · Django · Python · PostgreSQL · Postgis · RESTful API

## PROJECTS

### AI-BASED PLUGIN FOR INTERACTIVE CONFLICT RESOLUTION IN BUSINESS PROCESSES USING BPMN, WORKFLOW, AND CHAT-GPT API

March 2023 - Present

- Develop an AI-based plugin to resolve conflicts within business processes in real-time
- BPMN (Business Process Model and Notation) and Workflow models for representing and automating business processes
- Chat-GPT API (Application Programming Interface) for interactive conflict resolution using AI.

**Skills** : Machine Learning models · Python, Java, C++ · API integration · Business process modeling, workflow automation

### BLOCKCHAIN BASED VOTING SYSTEM WEB APPLICATION

Feb. 2023 - Present

- Develop a web application for a secure and transparent Blockchain-based voting system using Spring Boot framework. blockchain

**Skills** : Spring Boot and Java programming · Blockchain and Solidity · HTML, CSS, and JavaScript · Cloud deployment · Security principles and best practices

### GEO MAPPING ANDROID APPLICATION WITH AR-BASED NAVIGATION

Jan. 2023 - Present

- Build an android application using Augmented Reality to geo map our university's campus.
- Use AR to display information about campus locations on user's phone screen
- Utilize GPS and geolocation technology to pinpoint user's location
- Provide detailed information about buildings and landmarks on campus

**Skills** : Android Studio, XML, Kotlin · ARToolkits, AR concepts · Mapping technologies, geolocation · UI design

## SKILLS

### PROGRAMMING

Proficient:

Python · Java · Bash · SQL

Familiar:

C · HTML · CSS · Android Studio · PostgreSQL · Javascript · XML · Kotlin

### LIBRARIES/Frameworks

Django · Pytest · Spring Boot · Numpy · OpenCV

### TOOLS/PLATFORMS

Git · Trello · Docker · Microsoft AZURE · AWS

### LANGUAGES

English · French · Arabic

## EDUCATION

### NATIONAL SCHOOL OF COMPUTER SCIENCE AND SYSTEMS ANALYSIS (EN-SIAS IN FRENCH)

SOFTWARE ENGINEERING STUDENT

Sep. 2021 - Present | Rabat, Morocco

Data Analysis,  
Cloud Computing,  
Virtualisation,  
AI fundamentals

## COMPETITIONS

### ENSIA'S FINTECH HACKATHON 2022

April 2022 | Rabat, Morocco

In just three days, our team conceptualized, prototyped, and developed the user interface for our own startup. As a result, we advanced to the final round of competition, outperforming 40 other teams.