




Bouroumana Moundher

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EDUCATION

Higher School of computer science sba

2023 - Present

B.S. Computer Science

COURSEWORK

Courses: Object-Oriented Programming, Data Structures & Algorithms, Data Science, Linear Algebra, Probability & Statistics

SKILLS

Programming: Python, Dart, SQL, java, \LaTeX

Backend: Django, Django rest Framework,

Machine Learning: TensorFlow, PyTorch, Scikit-Learn, NumPy, Pandas, Matplotlib

Databases: PostgreSQL, MySQL SQLite

Tools: Docker, RabbitMQ, Celery, Redis, Git, Unix Shell, Apache

PROJECTS

AI-Powered Logistics Optimization | *Django, RabbitMQ, Pyb3, TensorFlow, PostgreSQL*

2025

- Developed an AI-powered logistics system for optimizing truck space and dynamic route planning.
- Integrated RabbitMQ and Celery for asynchronous task handling.
- Implemented a 3D visualization of optimized truck loading using Pyb3.

Hackathon Logistics Platform | *Django, Flutter, Firebase, RabbitMQ, PostgreSQL*

2025

- Developed a logistics platform for efficient truck-sharing and route optimization.
- Implemented AI-based transporter suggestions and dynamic tracking.
- Utilized Firebase for real-time notifications to transporters and shippers.

Career Bridge Platform | *Web, App, Redis, RabbitMQ, Celery, JWT*

2024

- Developed a platform connecting students with internships and companies posting real-world problems to solve.
- Implemented Redis and RabbitMQ for real-time messaging and task queuing.
- Used Celery and Celery Beat for efficient task scheduling and background processing.
- Implemented JWT for secure authentication and authorization.

Neural Network from Scratch | *Python, NumPy*

2024

- Built a fully connected neural network from scratch using only NumPy.
- Implemented forward and backward propagation with ReLU activation.
- Designed a custom training loop with gradient descent.

Hotel Management and Reservation App | *Flutter, Firebase, API Integration*

2024

- Developed a Flutter app to manage hotel and accommodation reservations in a city.
- Integrated Firebase for real-time database management and user authentication.
- Implemented hotel availability checking, room booking, and reservation management features.
- Created custom API endpoints for reservation and payment processing.

Library Management System | *Django, React, PostgreSQL*

2023

- Built a library management system with role-based access control.
- Implemented book lending, tracking, and automated reminders for due dates.
- Designed an intuitive frontend using React.

CERTIFICATIONS

- **Data Science** from HP
- **Problem Solving** from Hackrank
- Participant in **BSc Hackathon** by Dev Up
- Participant in **Tatweer Hackathon** by Micro Club
- Basics Ai to Gen ai by **NVIDIA**