

# Ahmad Mrad

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## Summary

I am a third-year Computer Science student with a strong passion for web development and a solid foundation in **Java, HTML, CSS, JavaScript, Python, and PHP**. I enjoy creating dynamic and user-friendly web applications, writing clean and efficient code, and continuously exploring new technologies. With a keen eye for detail and a problem-solving mindset.

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## Education

**Lebanese International University**

**Bachelor of Science in Computer Science** (2022 – 2025)

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## Skills

### Programming & Web Development:

- Java, HTML, CSS, JavaScript, Python, PHP
- **Front-end:** HTML, CSS, JavaScript
- **Back-end:** PHP, Python
- **Database:** MySQL

### Machine Learning & Natural Language Processing:

- Solid foundation in machine learning concepts
- Practical experience with Natural Language Processing (NLP) using Python
- Python for data analysis and scripting

## Networking & System Knowledge:

- Networking fundamentals (*Certified by Cisco*)
- Understanding of network security and protocols

## Soft Skills:

- Strong problem-solving and analytical thinking
  - Ability to work in a team and adapt to new technologies
  - Effective communication and time management
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## Certifications

- **Python Certificate** – *American University of Beirut*
  - **CCNA – Introduction to Networks** – *Cisco*
  - **CCNA – Switching, Routing, and Wireless Essentials** – *Cisco*
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## Projects

### Coding Camp

A dynamic web platform designed for an online coding camp. It allows users to register, log in, and enrol in programming courses. The website features a responsive interface, secure authentication, and structured course content.

#### Key Features:

- **User Authentication:** Secure login/logout system with PHP sessions
- **Course Registration:** Users can register for courses with a confirmation message
- **Dynamic Content:** Courses and descriptions are displayed dynamically
- **Modern UI:** Styled with HTML, CSS, and jQuery for a smooth user experience
- **Technologies Used:** PHP, MySQL, JavaScript (jQuery), HTML, CSS
- **GitHub Repository:** [github.com/AhmadMrad/codeSphere](https://github.com/AhmadMrad/codeSphere)

## Hire Me

Developed a Natural Language Processing (NLP) application to semantically match resumes with job descriptions using Python and Gradio.

### Key Features:

- Extracted skills, education, and experience using spaCy and custom parsing logic
- Used Sentence Transformers and cosine similarity for semantic skill matching
- Implemented skill clustering with ESCO taxonomy and role relevance for experience scoring
- Designed an interactive Gradio interface for uploading resumes and visualizing match scores
- **Technologies Used:** Python, spaCy, Sentence Transformers, Gradio

- **ChronoTrack**

A full-stack attendance management system with role-based dashboards for HR and employees. Designed to replace manual tracking with real-time punch-in/out and automated payroll summary.

### Key Features:

- JWT-based login and password reset flow with token expiration logic
- Real-time punch tracking and multi-session workday support
- HR dashboard: manage employees, monitor attendance trends, calculate monthly payroll
- Employee dashboard: visual punch timeline, hours worked vs. remaining, leave overview
- CSV/PDF export, live charts, and role-based protected routes

**Technologies Used:** React, Tailwind CSS, FastAPI, Tortoise ORM, SQLite, Framer Motion, Chart.js

- **GitHub Repository:** [github.com/AhmadMrad/ChronoTrack](https://github.com/AhmadMrad/ChronoTrack)

## Languages

- **Arabic:** Native
  - **English:** Fluent
  - **French:** Intermediate
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