

# Ahmad Mrad

## Software Developer

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### About

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Computer Science graduate and aspiring Software Developer with a strong passion for web development and artificial intelligence. Solid foundation in Java, HTML, CSS, JavaScript, Python, and PHP, with experience building dynamic, user friendly web applications through academic projects and self-learning. Currently, expanding knowledge in AI technologies, including machine learning fundamentals and Python-based frameworks. Known for a detail-oriented mindset, problem solving skills, and a commitment to continuous learning and innovation.

### Education

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**Bachelor's of science in computer science** Lebanese International University | January 2025 - August 2025

Developed a strong foundation in computer science principles, including algorithms, data structures, software engineering, and web development. Gained practical experience in artificial intelligence and natural language processing through academic and independent projects.

### Certifications

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**INTRODUCTION TO COMPUTATION & PROGRAMMING USING PYTHON** (AMERICAN UNIVERSITY OF BEIRUT) | January 2025

**CCNA – Introduction to Networks** (CISCO) | January 2024

**CCNA – Switching, Routing, and Wireless Essentials** (CISCO) | January 2025

**AI & DATA ENGINEER** (ZAKA AI) | October 2025

### Projects

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#### Hire Me

Engineered a semantic matching engine using Sentence Transformers and cosine similarity to achieve an estimated 85% accuracy in aligning candidate skills with job description requirements.

- Key features:
- Parsed and extracted key data points (skills, education) from resumes using spaCy and custom logic to build a structured candidate database.
- Leveraged Sentence Transformers and cosine similarity to power a semantic skill-matching engine, enhancing the relevance of candidate-to-job alignments.
- 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

Developed a full-stack HR dashboard with role-based access to automate attendance tracking and payroll calculation, designed to reduce manual administrative tasks by over 90%.

- Key features:
- Automated HR operations by engineering a full-stack dashboard that reduced manual attendance and payroll tasks by over 90%, featuring role-based access control with JWT.
- 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)

## Skills

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- Languages: Java, CSS, JavaScript, Python, HTML, PHP
- Frameworks & Libraries:: React, FastAPI, Sentence Transformers, spaCy
- Databases:: MySQL, SQLite, Tortoise ORM
- Machine Learning & Natural Language Processing
- Networking & System Knowledge
- Soft Skills: Strong problem-solving and analytical thinking, Ability to work in a team and adapt to new technologies, Effective communication and time management

## Languages

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