

# Ahmad Mrad

## Software Developer

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## Summary

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Computer Science student and aspiring Software Developer with strong foundations in Java, Python, JavaScript, HTML, CSS, and PHP. Experienced in building dynamic web applications and AI/ML projects, including NLP and semantic matching engines. Detail-oriented problem solver with a passion for continuous learning and innovation. Seeking a junior AI/ML developer role to apply academic and project experience in real-world applications.

## Education

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### Bachelor of Science in Computer Science

Lebanese International University | Jan 2022 - Oct 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** | AUB - Jan 2024
- **CCNA – Introduction to Networks** | Cisco - Jan 2024
- **CCNA – Switching, Routing, and Wireless Essentials** | Cisco - Jan 2025
- **AI & DATA ENGINEER** | ZAKA AI - Oct 2025

## Projects

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### Hire Me - Semantic Resume Matcher

- Built a semantic matching engine using Sentence Transformers and cosine similarity, achieving ~85% accuracy in aligning candidate skills with job descriptions.
- Parsed resumes with spaCy to extract structured data (skills, education).
- Implemented skill clustering with ESCO taxonomy for relevance scoring.
- Designed an interactive Gradio interface for resume uploads and match visualization.
- Technologies: Python, spaCy, Sentence Transformers, Gradio

### ChronoTrack

- Developed a full-stack HR dashboard with role-based access, automating attendance and payroll tasks by 90%.
- Implemented JWT authentication, real-time punch tracking, and multi-session support.
- Built dashboards for HR (employee management, payroll) and employees (punch timeline, leave overview).
- Added CSV/PDF export, live charts, and protected routes.
- Technologies: React, Tailwind CSS, FastAPI, Tortoise ORM, SQLite, Chart.js, Framer Motion
- Github: [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
- **AI & ML:** Machine Learning, Deep Learning, Natural Language Processing (NLP), TensorFlow, PyTorch, Semantic Matching, Model Training & Evaluation
- **Other:** 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