Ramy Khachab

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Computer and Communications Engineering student at Antonine University with over 5 years of hands-on programming experience.

Skills

Languages: Java, C, C++, Python, JavaScript, TypeScript, SQL
Technologies: HTML, CSS, Tailwind, React, React Native, Next.js, Node.js, Express, Django, Flask, SpringBoot, NestJS
ML & Data: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas
Tools: Git, Docker, Linux, PostgreSQL, MySQL, MongoDB, SQLite, Prisma, Maven, VSCode, IntelliJ, WebStorm
Spoken Languages: English, Arabic

Experience & Projects

SitMyPet - Pet Sitting Mobile Application **Dec. 2025 – Mar. 2026**

- Developed a cross-platform pet sitting marketplace using React Native, NestJS, and Prisma, implementing role-based workflows for owners and sitters.
- Engineered sitter discovery with advanced filtering, integrated profile verification, and a rating system to enhance trust and match accuracy.
- Designed and implemented RESTful APIs covering the full booking lifecycle (request posting, applications, acceptance, scheduling, and reviews), handling multiple concurrent requests with a scalable backend architecture.
- Developed secure profile and document management with ID verification and media uploads, increasing platform safety while providing a scalable foundation for future features like payments and messaging.

Lumea – Social Media Application **Oct. 2025 – Dec. 2025**

- Developed a full-stack social media platform, supporting public and private profiles, posts, likes, and comments.
- Implemented real-time private messaging using WebSockets (Socket.IO) for seamless user communication.
- Built secure authentication and user management with privacy controls and role-based access.
- Designed and optimized a scalable backend using Node.js, Express, and MySQL, ensuring low-latency performance and data integrity, with a responsive UI for web/mobile using React and Tailwind.

MNIST Neural Network From Scratch **Jan. 2026 – Jan. 2026**

- Implemented a fully functional neural network for handwritten digit classification using only NumPy and Pandas (no deep learning frameworks).
- Built forward propagation, backpropagation, and gradient descent optimization with parameter updates.
- Designed a model with two hidden layers (128 and 64 units) using ReLU activation and a softmax output layer for 10-class classification.
- Achieved ~93% training accuracy with stable convergence by correctly implementing gradient computations.

Certifications

- DeepLearning.AI Deep Learning Specialization - 2026
- DeepLearning.AI Machine Learning Specialization - 2026
- CS50X & CS50 SQL, Harvard University - 2022, 2025
- NVIDIA Deep Learning Fundamentals - 2025
- Databricks Academy Accreditation, Generative AI Fundamentals - 2025

Education

Antonine University **Sept. 2023 – Present**
Bachelor of Engineering in Computer and Communications 3.72 GPA

References are available upon request