

Mohammad Murrar

Software Engineer | AI & Backend Development

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PROFILE

Software Engineer specializing in backend development, system integration, and API engineering. Experienced in building scalable RESTful services using Java Spring Boot and integrating multi-component systems in real-world applications. Skilled in database optimization, CI/CD pipelines, and cloud deployment (AWS). Passionate about leveraging AI and automation to improve system efficiency and enable digital transformation.

PROJECTS

OptiVet – Veterinary Clinic Management System (GP) 10/2024 – 02/2025

Full-Stack Application | React Native, Spring Boot, MySQL, AWS

BACK-END [🔗](#) | FRONT-END [🔗](#)

- Designed and developed **scalable RESTful APIs** using Spring Boot to support a multi-role system (clients, veterinarians, assistants)
- Engineered **system integration workflows** connecting appointment scheduling, medical records, and user management modules
- Built secure backend services using **JWT authentication and role-based access control (RBAC)**
- Improved system performance by optimizing API structure and reducing inefficient database queries
- Deployed and managed backend services on **AWS (EC2, RDS)** with automated **CI/CD pipelines using GitHub Actions**
- Containerized services using **Docker** to ensure consistent deployment across environments
- Automated cross-system workflows, enhancing data flow and reducing manual operations
- Applied modular and scalable design aligned with **microservices architecture principles**

TensorFlow Image Classifier – Data Processing Focus [🔗](#)

10/2025 – 11/2025

Python, TensorFlow, Keras, NumPy, Matplotlib

- Implemented a convolutional neural network using MobileNetV2 transfer learning.
- Trained the model on the Oxford Flowers-102 dataset, achieving 85%+ validation accuracy.
- Applied data preprocessing, normalization, and regularization techniques to improve model performance.
- Developed a command-line prediction tool and visualization pipeline to display top-5 predicted classes.
- Utilized TensorFlow Hub and Keras APIs for efficient model training and deployment.

Machine Learning Data Pipeline – Diabetes Classification [🔗](#)

01/2025 – 02/2025

Python, Scikit-Learn, Pandas

- Developed a machine learning pipeline for predictive analysis using Python, Pandas, and Scikit-learn
- Automated **data preprocessing and validation workflows** using modular Python scripts
- Applied reproducible engineering practices for consistent and reliable results

EDUCATION

BSc in Computer Science

09/2020 – 02/2025

Birzeit University [🔗](#)

AI Programming with Python and TensorFlow

08/2025 – 12/2025

Udacity Certification [🔗](#)

Covered Python, NumPy, Pandas, Matplotlib, and deep learning foundations with TensorFlow.

SKILLS

- Programming:** Java, Python, JavaScript
- Backend & Integration:** Spring Boot, REST APIs, JSON, API Development, System Integration
- Databases:** MySQL, PostgreSQL (familiar), SQL
- DevOps & Tools:** Docker, CI/CD (GitHub Actions), AWS (EC2, RDS), Git
- Concepts:** Microservices Architecture, Authentication (JWT), Middleware, OOP
- AI & Data:** Machine Learning, Data Analysis (Pandas, NumPy, Scikit-learn)
- Soft Skills:** Problem Solving, Communication, Adaptability

LANGUAGES

English – Proficient

Hebrew – Conversational

Arabic – Native/Bilingual