

# Omar ALTamimi

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## EDUCATION

**Educational College School, Amman, JO** American High School Diploma GPA: 95.3% - 2021  
**Bachelor of Science, Computer Science - Jordan University of Science and Technology**, GPA: 3.51 - 2026  
**Erasmus+ Student Exchange:**, Utena Kolegija, Lithuania Sep 2024 - Jan 2025  
**Global UGRAD Exchange:** Bluefield State University, United States Jan 2025 - May 2025  
**Relevant Coursework:** Software Engineering Fundamentals, **Database Systems, OOP, Data Structures, Algorithms**, SDLC  
Cybersecurity, Operating Systems, System Design, Networks, UML, XML, Probability and Statistics, Linear Algebra, Discrete Math

## SKILLS SUMMARY

Full-Stack Web Dev: **Java, Python, JavaScript, React.js, Next.js, HTML/CSS**  
Backend & APIs: **FastAPI, Flask, REST APIs, GraphQL, SQL (PostgreSQL), NoSQL, Redis**  
AI & ML: **GenAI, RAG, VectorDB, LLMs, Prompting, Langchain, Computer Vision**  
Data Analytics: **SQL, Pandas, Scikit-learn, Data Visualization PowerBI, ETL Pipelines**  
Cloud & DevOps: **Docker, Kubernetes, AWS (EC2, S3, ECS, VPC), CI/CD (Jenkins, Skooner), Git/GitHub**  
Practical skills: **Ability to thrive and foster | Communication & interpersonal skills | Growth Mindset**  
**Desire to learn and implement | Attention to Detail | Efficient Time Management**  
**Innovative, Inquisitive, Consistent, Adaptable, Passionate, Multitasking, Problem-solving**  
Languages: Proficient in **Arabic** and **English**, exposure to **German, Spanish**

## Experience

**Tarjama&, Software Engineer, Intern** Sep 2025 - Dec 2025  
- Created a timesheets platform for 100+ employees to track their projects with continuous DevOps monitoring  
- Used Domain Driven Design & engineered a containerized fullstack microservice (Docker, Jenkins, React, Flask, SQL)  
- Developed customizable AI workflows with RAG pipelines integrating vector databases & hyperparameter tuning

**Purdue, Cybersecurity Academy,** May 2024 - Dec 2024  
- Performed penetration testing and vulnerability assessments using Kali Linux, Metasploit, and Burp Suite  
- Conducted malware and forensic analysis using Autopsy, Ghidra, and Wireshark  
- Implemented cryptographic and secure communication using Hashcat, Cyberchef, and nmap

**AWS, re/Start, Intern** Jan 2024 - Apr 2024  
- Applying AWS Core Services like EC2, S3, IAM, VPC, RDS, SSM  
- Utilizing network concepts, security fundamentals, database management, and SDLC in LinuxOS  
- Understood technology workflows in project management, effective communication, reporting, collaboration tools

**Wiley, Software Engineering and Devops, Intern** Oct 2023 - Mar 2024  
- Implemented JWT authentication, RBACs, Redis caching, and ORM to optimize API endpoints  
- Applied design patterns, clean code, web application using Java Frameworks  
- Automated build and deployed pipelines via Devops methodologies like CI/CD, IaC, Docker, Maven, Jenkins

**DOT Jordan, AI & Computer Vision, Intern** Aug 2023 - Oct 2023  
- Training convolutional neural networks for model evaluation, activation functions, Tensorflow, other methodologies  
- Used advanced computer vision concepts for LLM, classification, recognition, tracking and train AI models  
- Implemented python data science libraries to make analysis operations and efficient visualization charts

## TECHNICAL PROJECTS

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### Spam Email Classifier,

- Gathered and explored data to preprocess it and produce efficient conclusions
- Training and testing AI modules to classify data based on sklearn metrics (building, predicting, visualizing)

### Decentralized Clustered DB System,

- Created Bootstrap, Worker, and Demo SpringBoot applications capable of efficiently querying and processing data
- Managed cluster properties, initialized configurations, handle credentials and affinity, and broadcast workers
- Streamlined development process via Git, GitHub Actions, Docker, and Maven

### Credit card Fraud Dedicated LLM

- Developed a LLM on a multi-GPU cluster to detect credit card fraud, i reached a 92.7% PR\_AUC score on a highly imbalanced dataset of 284,807 transactions
- Engineered a Retrieval Augmented Generation pipeline using a custom vector store to fraudulent transaction patterns and reducing false positive rate
- Implemented a fine tuned transformer (BERT) model with high precision and recall in identifying fraudulent activities with quick inference time per transaction

## Research Assistant

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### GenImage SwinTransformer Deepfake Research - Dr. Malak Abdallah

- **Developed a SOTA Deepfake Detector:** robust AI generated face detection using SwinTransformer, EfficientNet, Xception architectures in PyTorch, targeting GenImage to detect diffusion based generative models (Midjourney, Stable Diffusion)
- **Optimized Training Workflow:** model training on Kaggle (T4 GPUs) clusters using Mixed Precision (fp16) and GradScaler, reducing training time by 20% while keeping high AUC-ROC scores
- **Implemented Advanced Data Pipeline:** custom data augmentation using Albumentations (JPEG compression, Gaussian blur) to simulate social media artifacts, improving model against unseen generators

## Contributions

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### Oppia

I worked on an internationalization (i18n) fix for Oppia. The platform had hardcoded English strings that excluded other languages. So, I refactored the hardcoded text with a translation keys and updated localizaton of JSON files. Also I improved developer experience by clarifying documentation to prevent terminal copy paste issues for macOS users and debugged backend logic by for python calculation error that suddenly merge time estimates

## Courses and Competitions

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| - AWS Cloud Practitioner                   | - BSU Robotics Team (Arduino)                                |
| - Google 'IT automation' Certification     | - Fine tuned AR Sandbox                                      |
| - JCPC (ACPC Qualifications)               | - International Studies Office Intern                        |
| - IEEE (Organizer & Participant)           | - Pioneers Academy, Leadership and Innovation                |
|  | - Python, Data Analysis, ML Course, (The Hope International) |
| - META Hacker Cup                          | Oct 2023   |
| - IEEEExtreme                              | Oct 2023   |
| - Hult Prize (Coordinator & Participant)   |  |
| - MUN (Model United Nations) best delegate |  |