



# Omar AlTamimi

+962 795632533 • iamomarjr@gmail.com • [LinkedIn](#) • [Github Projects](#)

## EDUCATION

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

## SKILLS SUMMARY

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

## Experience

<b>Tarjama&amp;, Software Engineer, Intern</b>	<b>Sep 2025 - Dec 2025</b>
- 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	
<b>Purdue, Cybersecurity Academy,</b> <b>May 2024 - Dec 2024</b>	
- 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	
<b>AWS, re/Start, Intern</b>	<b>Jan 2024 - Apr 2024</b>
- 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	
<b>Wiley, Software Engineering and Devops, Intern</b>	<b>Oct 2023 - Mar 2024</b>
- 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	
<b>DOT Jordan, AI &amp; Computer Vision, Intern</b>	<b>Aug 2023 - Oct 2023</b>
- 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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| <ul style="list-style-type: none"><li>- AWS Cloud Practitioner</li><li>- Google 'IT automation' Certification</li><li>- JCPC (ACPC Qualifications)</li><li>- IEEE (Organizer &amp; Participant)</li></ul> | <ul style="list-style-type: none"><li>- BSU Robotics Team (Arduino)</li><li>- Fine tuned AR Sandbox</li><li>- International Studies Office Intern</li><li>- Pioneers Academy, Leadership and Innovation</li><li>- Python, Data Analysis, ML Course, (The Hope Internation</li></ul> |
| <ul style="list-style-type: none"><li>- META Hacker Cup</li><li>- IEEEXtreme</li><li>- Hult Prize (Coordinator &amp; Participant)</li><li>- MUN (Model United Nations) best delegate</li></ul>            | Oct 2023  |
|   | Oct 2023  |