Omar Khatib

U.S. Citizen | Tel (WhatsApp): +17739994738 | Tel: +970598388288 | osokhatib1@gmail.com |
linkedin.com/in/omar-khatib-01 | github.com/OmarKhatib01 | website

EDUCATION

Northwestern University　　　　　　　　　　　　　　　　　　　　Evanston, IL, USA
Bachelor of Science in Computer Science, Minor in Economics, Major GPA: 3.9/4.0　　*September 2019 – June 2023*

Stanford University　　　　　　　　　　　　　　　　　　　　　　Stanford, CA, USA
Certificate in UI/UX Design　　　　　　　　　　　　　　　　　　*July 2019 – August 2019*

EXPERIENCE

Software Engineer　　　　　　　　　　　　　　　　　　　　　Nov 2023 – Present
AlNayzak　　　　　　　　　　　　　　　　　　　　　　　　　*Jerusalem, Israel*
- Led development of a student portal serving **2000+ users**, bridging technical execution with strategic objectives.
- Built and deployed a dynamic ERP system for **50+ employees**, with plans for NGO commercialization.
- Instructed a course on **emerging technologies** (AI, blockchain, AR/VR, Web3, ethics), reaching university students and professionals.
- Engineered a scalable multi-tenant SaaS e-commerce application using **Next.js**, enabling dynamic storefront rendering and seamless tenant isolation.

Founding Software Developer　　　　　　　　　　　　　　　　Mar 2022 – Jan 2023
JupiterDX (now Pathize Health)　　　　　　　　　　　　　　　*Evanston, IL, USA*
- Developed health data API for wearable devices improving patient insights and contributed to a **$500k pre-seed investment**.
- Led a team of 5 engineers, applying agile methodologies to enhance product performance and delivery.

Software Engineering Intern　　　　　　　　　　　　　June 2022 – September 2022
Alarm.com　　　　　　　　　　　　　　　　　　　　　　　　*Tysons, VA, USA*
- Designed and implemented automated tests that improved product quality by detecting 3 bugs across 6 devices (doorbells and cameras) before production, saving **$20,000 in potential bug-fix costs**.
- Integrated tests into a continuous testing framework, **reducing manual testing time by 50%** and accelerating feature rollout.

Research Assistant　　　　　　　　　　　　　　　　　　August 2021 – June 2022
Kellogg School of Management - Northwestern University　　　　　*Evanston, IL, USA*
- Collected and analyzed data on political polarization using **NLP techniques**, producing insights that influenced policy discussions among academic stakeholders and enabled faster research cycles.

PROJECTS

NLP Experiments | *Python, Pytorch, HuggingFace, Numpy, Pandas*　　　　　　　2023
- Explored **FFNNs, LSTMs, GPT-2, BERT** for NLP tasks like **Question Answering** and **Fake News Detection**, achieving improved accuracy.
- Fine-tuned models with **HuggingFace Transformers**, optimizing classification tasks and performance metrics.

Artificial Life 3D Morphology Evolutionary Algorithm | *Python, Pybullet, Pyrosim, Numpy, Pandas*　2023
- Developed a 3D evolutionary algorithm simulating creature behavior to mimic real-life **evolutionary processes**.
- Evolved creatures based on fitness metrics, improving **efficiency** and **survivability** in virtual environments.

Music for The Moment | *Python, Multi-threading, IBMWatson API, NLP, Scrum*　　　2021
- Designed an **AI-driven music player** that analyzes live dialogue sentiment and selects music in real-time.
- Used **multi-threading** and **NLP** to process speech sentiment in parallel for live shows.
- Applied **Scrum** to manage and deliver the project iteratively with a collaborative team.

TECHNICAL SKILLS

Languages: Python, JavaScript, Typescript, SQL, HTML/CSS, C++, C#, PHP
Frameworks & Libraries: React, Node.js, Next.js Express, Laravel, pandas, NumPy, Matplotlib, Pytorch, Django
Databases: PostgreSQL, MySQL, MongoDB
Tools & Platforms: Git, Docker, AWS, Bitbucket, Confluence, Jira, VSCode, Visual Studio
Coursework: DSA, Algorithms, ML/DL, Discrete Math, Databases, Scalable Software, Agile, Finance